



U.S. Department of Transportation

National Highway Traffic Safety Administration

Dear Crash Data Researchers/Users:

Thank you for choosing crash data from the National Highway Traffic Safety Administration (NHTSA) for your research or other use. The information contained in this motor vehicle crash report is collected, maintained and distributed in accordance with Public Law 89-564. In accordance with this Public Law, NHTSA is required not to release any case information until completion of quality control procedures. These procedures include a review of the case material to extract all names, licenses and registration numbers, non-coded interview material, non-research related researcher comments in the margins, non-factual data, and the production number portion of the vehicle identification number (VIN).

If you requested NHTSA to query its database files in order to identify a specific crash, then that query was made using non-personal descriptors you provided for use in our search. This motor vehicle crash may have been identified from a data search and matches the general, non-personal descriptors you provided, but we cannot confirm that this is the specific crash report you requested.

If you have any questions with regard to the above procedures, please contact the Field Operations Branch, Crash Investigation Division, National Center for Statistics and Analysis at 202-366-4820. Again, please be advised that we cannot confirm that this is the case that you have specifically requested nor can we certify the information to be correct.

*** *** ***



DYNAMIC SCIENCE, INC. In-Depth Accident Investigation

Contract Number DTNH22-93-P-07484 Case Number DSI-93-AB-016



TECHNICAL SUMMARY

CONTRACTOR: CONTRACT NUMBER:

Dynamic Science, Inc. DTNH22-93-P-07484

CASE NUMBER:

DSI-93-AB-016



This two vehicle collision occurred on New Jersey. The initial impact occurred when Vehicle 1 struck the rear end of Vehicle 2 with its front end. The second impact occurred with Vehicle 1 striking a guard rail on the right side of the ramp.

Vehicle 1, 1990 Lincoln Town Car Signature, was being driven northbound on the entrance ramp. The driver was a 61 year old female (case occupant) who was restrained by a lap and shoulder restraint. Vehicle 1 was traveling at a speed estimated to have been between 24 and 32 KPH (15 and 20 MPH).

Vehicle 2, 1983 Buick Regal Limited, was being driven northbound on the entrance ramp. Vehicle 2's travel speed is unknown because there was no inspection of Vehicle 2.

The initial impact between the two vehicles occurred as both vehicles were on the ramp to travel northbound on the expressway. The lst impact occurred when the driver of Vehicle 1 lost control of her vehicle and Vehicle 1 struck the rear end of Vehicle 2. Vehicle 1 continued to move to the right side of the ramp and impacted a guard rail with the same general area that was damaged by the lst impact. This type of damage is called masked damage and is treated as one impact when this damage is assigned a CDC or when developing up an estimated Delta V.

The Delta V for Vehicle 1 was computed as 18 KPH (11 MPH). Vehicle 1 was assigned a CDC of 12FZEW1 from photographs. The Delta V was derived by using the CDC extent zone for the crush profile and the impact with the guard rail (fixed object). This is borderline reconstruction because of the multiple impacts and using only a CDC for the crush profile.

The driver of Vehicle 1 (case occupant) sustained major burns to her face which equal an AIS of 3. The injury appears to have occurred when the supplemental restraint system deployed, from the collision with Vehicle 2. The driver was transported to an area hospital where she was treated and released.

The right front occupant reportedly sustained minor injury to an eye (contusion or abrasion) and the severity is unknown. The R/F occupant was transported to an area hospital where he was treated and released.

The driver and R/F occupant of Vehicle 2 reportedly sustained no injuries resulting from the collision.

Vehicle 1 was towed from the scene due to the injuries of the driver. Vehicle 2 was driven from the scene.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DSI-93-AB-016

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ACCIDENT DATA:

Location: New Jersey

Area/Type: Urban/Commercial

Date/Time: Winter/Weekday

Accident Type: Car/Car, Car/Guard Rail

INJURY SEVERITY:

Vehicle 1: Driver, AIS-3

R/F Occupant, Reportedly sustained

incapacitating injuries

Vehicle 2: Driver, No injuries

R/F Occupant, No injuries

AMBIENCE:

Viewing Conditions: No viewing restriction

Cloud Cover: Clear

Precipitation: Clear

Temperature: Unknown

Road Surface: Wet

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ROADWAY:

VEHICLE 1 VEHICLE 2 Entrance ramp to a Entrance ramp to a Type: northbound parkway, northbound parkway, channelized channelized Not inspected Width: Not inspected **Traffic Density:** Reportedly moderate Reportedly moderate None None Median: Right side was a guard Unknown Edge: rail **Surface:** Reportedly Asphalt Reportedly Asphalt None reported None reported **Reported Defects: Co-efficient of Friction** Unknown, Wet surface Unknown, Wet surface (est.): Reportedly level Reportedly level **Vertical Alignment:** Reportedly straight Reportedly straight **Horizontal Alignment:**

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Traffic Controls:

VEHICLE 1 VEHICLE 2

Signals: None None

Signs: None Yield sign

Speed Limit: 72 KPH (45 MPH) 72 KPH (45 MPH)

Markings: Scene not inspected Scene not inspected

Case Number: DSI-93-AB-016

VEHICLES:

VEHICLE 1 VEHICLE 2

Description: 1990 Lincoln Town Car

Signature 4-door

1983 Buick Regal Limited 2-door

Odometer: 19,312 km (12,000 mi) Unknown (not inspected)

Estimated by owner

Engine: 5.0 L / V8 3.8 L / V6

Vehicle Modifications: None Unknown (not inspected)

Tire Condition: Unknown at the time of Unknown (not inspected)

collision

Manual Restraints: 3-point lap and Unknown (not inspected)

shoulder belts at the front seating positions and the left and right rear seating positions; 2-point lap belt at the center rear seating

position

Automatic Restraints: Driver and passenger None per V.I.N.

side supplemental restraint systems

(airbags)

Reported Defects: None Unknown (not inspected)

Cargo: Unknown (not inspected)

Windshield Damage: None Unknown (not inspected)

Fleet: None None

Tow Status: Towed due to driver's Driven from the scene

injuries

Case Number: DSI-93-AB-016

VEHICLE DAMAGE:

VEHICLE 1

VEHICLE 1

Object Struck:

Vehicle 2

Guard Rail (fixed object)

Event Number:

01

02

CDC:

N/A Masked damage

12FZEW1

(by photographs)

Maximum Crush:

Zone 1

Zone 1 (by photographs)

VEHICLE VELOCITY ESTIMATES:

VEHICLE 1

VEHICLE 1

Impact Speed:

24 - 32 KPH

16 - 24 KPH

18 KPH (11 MPH)

(15 - 20 MPH) (10 - 15 MPH)

Total Delta V:

Not computed, the

collision damage was masked by another impact with a fixed object (guard

rail)

Longitudinal Delta V:

-18 KPH (-11 MPH)

Lateral Delta V:

-3 KPH (- 2 MPH)

Energy Dissipation:

24178.4 joules (17830.7 ft/lbs)

Calculations based upon:

None

CRASH III PC - multiple

impacts - borderline

reconstruction - used vehicle vs. barrier with CDC only

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VEHICLE DAMAGE (con't):

VEHICLE 2

Object Struck: Vehicle 1

Event Number: 01

CDC: Not inspected

Maximum Crush: Not inspected

VEHICLE VELOCITY ESTIMATES:

VEHICLE 2

Impact Speed: Unknown

Total Delta V: Not computed, masked

damage on Vehicle 1 and

this vehicle was not

inspected

Longitudinal Delta V: Unknown

Lateral Delta V: Unknown

Energy Dissipation: Unknown

Calculations based upon: None

Case Number: DSI-93-AB-016

COLLISION SEQUENCE:

PRE-CRASH:

This two vehicle collision occurred on a winter weekday, on an entrance ramp to an expressway in New Jersey. The initial impact occurred when Vehicle 1 struck the rear end of Vehicle 2 with its front end (right half). The second impact occurred with Vehicle 1's right front corner striking a guard rail on the right side of the ramp.

Vehicle 1, 1990 Lincoln Town Car Signature, was being driven northbound on the entrance ramp. Vehicle 1 entered the ramp from an eastbound roadway. The driver was a 61 year old female (case occupant) who was restrained by the available 3-point manual lap and shoulder restraint. In the vehicle's right front seating position was a 29 year old male. The R/F occupant was reportedly restrained by the available 3-point manual lap and shoulder restraint. Vehicle 1 also has a driver and passenger side Supplemental Restraint System (SRS) available in the vehicle. Vehicle 1 was traveling at a speed estimated to have been between 24 and 32 kilometers per hour (15 and 20 MPH).

Vehicle 2, 1983 Buick Regal Limited, was being driven northbound on the entrance ramp. Vehicle 2 entered into a channelized lane of the ramp from a westbound roadway. The travel speed of Vehicle 2 is unknown because there was no inspection of Vehicle 2.

The initial impact between the two vehicles occurred as both vehicles were on the ramp to travel northbound on the expressway. Vehicle 2 was merging into a through travel lane of the ramp in front of Vehicle 1 at the time of the collision. The lst impact occurred when the driver of Vehicle 1 lost control of her vehicle and Vehicle 1 struck the rear end of Vehicle 2. Vehicle 1 continued to move to the right side of the ramp and impacted a guard rail with the same general area of the frontal plane that was damaged by the lst impact. This type of damage is called masked damage and is treated as one impact when this damage is assigned a CDC or when developing an estimated Delta V.

CRASH:

The estimated Delta V for Vehicle 1 was computed using CRASH III PC (fixed barrier algorithm), as 18 kilometers per hour (11 MPH). Vehicle 1 was assigned a Collision Deformation Classification (CDC) of

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12FZEW1 from the available photographs. The Delta V was calculated by using the CDC extent zone for the crush profile and the impact with the guard rail (fixed object). This is borderline reconstruction because of the multiple impacts and using only a CDC for the crush profile.

POST CRASH:

Vehicle 1 reportedly came to a final rest position against the guard rail on the right side of the ramp. Vehicle 2's final rest position is unknown.

DRIVER KINEMATICS:

The 61 year old female driver of Vehicle 1 (case occupant) was seated in an upright seated position with the seat adjusted forward of center because of her short stature. The driver was restrained by the available manual 3-point lap and shoulder restraint. The case occupant is 155 centimeters (61 in) in height and her weight was unavailable. At impact, the case occupant continued forward toward the principle direction of force of the impact. The impact with Vehicle 2 deployed the supplemental restraint system (the driver side air bag). The deployment of the air bag appears to have been restricted by the driver's seating position and her forward movement at impact. This did not allow the air bag to deploy properly and the nitrogen gas that inflates the bag was forced out the vent holes located in the rear of the bag at approximately the eleven and five o'clock positions. This occurrence resulted in the case occupant receiving burns on her face and right wrist. The medical report states that the burns can be attributed to chemical contact.

The driver also received injuries to her right eye. The eye injury probably occurred when she contacted the steering wheel and the lens from the glasses that she was wearing broke out of the frame and injured her eye.

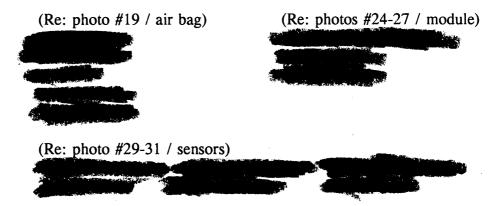
AIRBAG SYSTEM:

The case vehicle, a 1990 Lincoln Town Car Signature, was equipped with Supplemental Restraint Systems (driver and passenger side air bags). The SRS deployed as a result of a frontal impact with the rear end of a 1983 Buick Regal Limited.

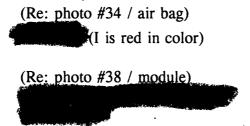
An inspection was conducted by Dynamic Science approximately ten months after the collision occurred. The driver air bag was found to be intact and there was no damage to the bag. The SRS was vented by two ports located on the back side of the bag. The ports were located at 11

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o'clock and 5 o'clock positions. The air bag contained 7 vertical fold points and 4 horizontal fold points with reference to the top of the air bag. The air bag measured 63 centimeters (24.8 in) in diameter. The following sequence of numbers and letters were found on the driver side SRS:



The passenger's side air bag was found intact and with no damage to the bag. The passenger's side SRS (air bag) measured 65 centimeters (25.6 in) across and 60 centimeters (23.6 in) in depth. The following sequence of numbers and letters were found on the passenger's side SRS:



SCENE CLEARANCE:

The driver of Vehicle 1 (case occupant) sustained major burns to her face which equal to AIS-3. The injury appears to have occurred when the supplemental restraint system deployed, from the collision with Vehicle 2. The driver was transported to an area hospital where she was treated and released.

The right front occupant reportedly sustained a minor injury to an eye (contusion or abrasion) and the severity is unknown. The R/F occupant was transported to an area hospital where he was treated and released.

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The driver and R/F occupant of Vehicle 2 reportedly sustained no injuries as a result of the collision.

Vehicle 1 was towed from the scene due to the injuries of the driver. Vehicle 2 was driven from the scene.

SAFETY STANDARDS:

No violations of the Federal Motor Vehicle Safety Standards were found during vehicle inspection.

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DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

DRIVER OCCUPANT 2

Age/Sex: 61 Yrs. / Female 29 Yrs. / Male

Seated Position: Left Front Right Front

Seat Type: Split bench with separate Split bench with separate

back cushions back cushions

Height: 155 cm (61 in) 163 cm (64 in)

Weight: Unavailable 53 kg (117 lbs)

Occupation: Unknown Unknown

Pre-existing Medical None Unknown

Condition:

Alcohol/Drug Involvement: None N/A

Driving Experience: 45 years N/A

Body Posture: Upright normal posture Upright normal posture

Hand Position: Both on steering wheel Unknown

Foot Position: Unknown Both on floor

Restraint Usage: 3-point manual lap and 3-point manual lap and

shoulder belt and a shoulder belt and a

supplemental restraint system supplemental restraint system

(air bag) (air bag)

Additional Occupants: One None

Additional Occupants:

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DRIVER AND OTHER OCCUPANTS (con't):

VEHICLE 2

	DRIVER	OCCUPANT 2	
Age/Sex:	47 Yrs. / Female	68 Yrs. / Female	
Seated Position:	Left Front	Left Front	
Seat Type:	Unknown (not inspected)	Unknown (not inspected)	
Height:	Unknown (no interview)	Unknown (no interview)	
Weight:	Unknown	Unknown	
Occupation:	Unknown	Unknown	
Pre-existing Medical Condition:	Unknown	Unknown	
Alcohol/Drug Involvement:	Unknown	Unknown	
Driving Experience:	Unknown	N/A	
Body Posture:	Unknown	Unknown	
Hand Position:	Unknown	Unknown	
Foot Position:	Unknown	Unknown	
Restraint Usage:	Reportedly lap and shoulder belt	Reportedly lap and shoulder belt	

One

None

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INJURIES:

Vehicle 1

	INJURY	OIC	ICD-9	SOURCE
DRIVER	Extensive burns to the entire face (chemical burns); forehead, cheeks, eyelids and chin	292010.3,0	941.39	Air bag exhaust gases
	Large corneal abrasion on the right eye	240602.1,1	918.1	Steering wheel with lens of glasses contacting the eye
	Abrupt vitreous (gel of the eye) retractions with intermittent attacks of "flashes of light" which disturb the vision	241699.1	918.9	Steering wheel with lens of glasses contacting the eye
	Contusion, left side of neck	390402.1,2	920	Air bag
	Burn, right wrist	792006.1,1	944.07	Air bag exhaust gases

R/F OCCUPANT

Reportedly sustained incapacitating injuries to eye (contusion or abrasion) unknown severity

Vehicle 2

DRIVER Reportedly no injuries R/F OCCUPANT Reportedly no injuries

Abbreviations Used In Scene And Photographic Documentation

Feet ft. Inches in. **AIS** Abbreviated Injury Scale Begin Left Front **BLF** Begin Left Rear BLR Begin Right Front **BRF** Begin Right Rear BRR Cab Behind Engine CBE Counterclockwise **CCW** Collision Deformation Classification **CDC** CG Center of Gravity CM Centimeter COE Cab Over Engine CW Clockwise E, EB East, Eastbound End Left Front **ELF** End Left Rear ELR **ERF** End Right Front **ERR** End Right Rear Final Rest Position FRP Interstate Highway I ΙP Intermediate Point KG Kilogram **KPH** Kilometers Per Hour LF Left Front LR Left Rear M Meter N, NB North, Northbound NE Northeast NW Northwest **PDOF** Principal Direction of Force POI Point of Impact R Radius of Curvature RF Right Front RL Reference Line RP Reference Point RR Right Rear South, Southbound S, SB SE Southeast SW Southwest Т Time or Elapsed Time (in seconds) U.S. United States Highway

Vehicle Number 1

West, Westbound

V1

W, WB

COLLISION MEASUREMENTS

Case Number DSI-93-AB-016

Reference Point: N/A

Reference Line: N/A

DATA POINT	LONGITUDINALS	LATERALS
THE SCENE WAS NOT INSPECTED / REMOTE STYLE OF CASE		

PHOTO INDEX

Case No. DSI-93-AB-016

PHOTO NO.	VEHICLE NO.	DIRECTION OF PICTURE	SUBJECT MATTER
1-7	V1	CW	Exterior views, Vehicle 1 (after repairs on vehicle)
8-15	V1		Interior views, Vehicle 1
16-28	V1		Supplemental Restraint System (SRS), Vehicle 1, driver side
29-31	V1		Supplemental Restraint System sensors, Vehicle 1
32-39	V1		Supplemental Restraint System (SRS), Vehicle 1, passenger side
40-42	V1		Exterior views, Vehicle 1 (damage from collision)
43-44	V1		Interior views, Vehicle 1, depicts SRS locations prior to repair
45-51	V1		Views of injuries of the driver of Vehicle 1 resulting from collision













































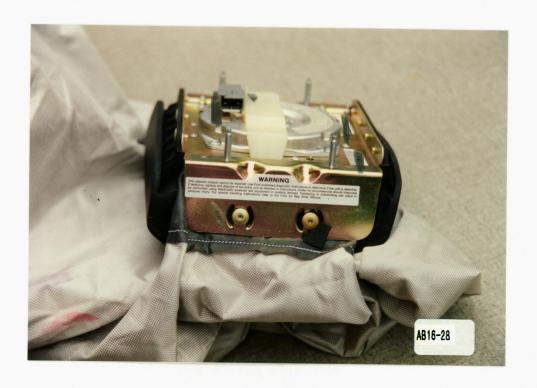


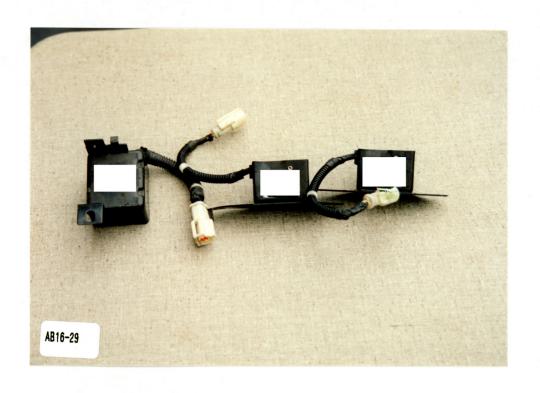


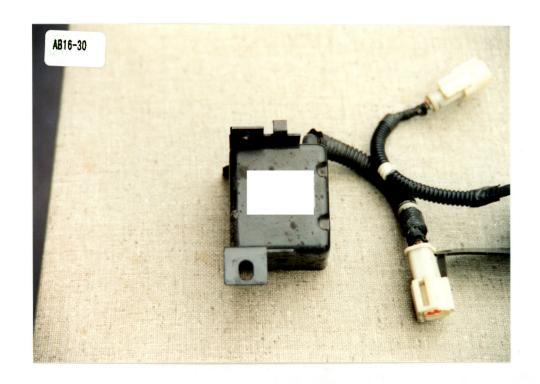
























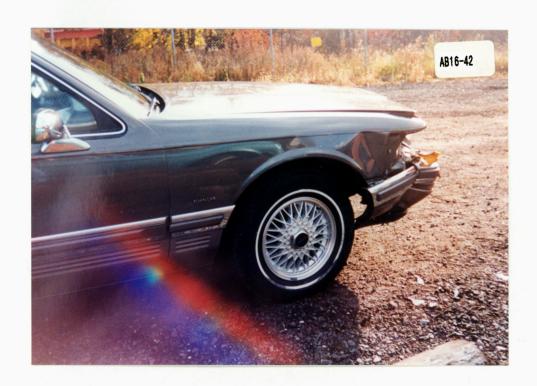
















"GRAPHIC" PHOTOGRAPHS AND IMAGES

The following "GRAPHIC" Photographs and Images have been removed from this case	€.
Photo #45-51	

If you would like a copy of these photographs and/or images please write to:

MARJORIE SACCOCCIO VOLPE NATIONAL TRANSPORTATION SYSTEMS CENTER 55 BROADWAY CAMBRIDGE, MA 02142

In the body of your request please include the case, photograph and image number(s).



U.S. Department of Transportation National Highway Traffic Safety Administration

ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

2. Case Number - Stratum

DS1-93-AB-0/6

IDENTIFICATION

3. Number of General Vehicle Forms Submitted

\$ 1

4. Date of Accident (Month, Day, Year)

WINTER IWEEKDAYI 9 2

5. Time of Accident

AFTERMOON

Code reported military time of accident.

NOTE: Midnight = 2400 Unknown = 9999 **SPECIAL STUDIES - INDICATORS**

Check (1) each special study (SS14-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. ___SS14 Fatal AOPS

<u></u>

7. ___SS15 Administrative Use

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8. ___SS16 ____

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9. ____SS17 ____

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10. ___SS18 ___

\$

NUMBER OF EVENTS

11. Number of Recorded Events in This Accident

02

Code the number of events which occurred in this accident.

ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object on the right.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General. Area of Damage
. 12. <u>0 1</u>	13. <u>Ø /</u>	14. <u>Ø 5</u>	15. <u>F</u>	16. <u>Ø 2</u>	17. <u>Ø 3</u>	18. <u> </u>
19. <u>0</u> <u>2</u>	20. <u>Ø /</u>	21. <u>Ø 5</u>	22. <u>F</u>	23. <u>5 6</u>	24. <u>Ø</u> Ø	25. <u>Ø</u>
26. <u>0</u> <u>3</u>	27	28	29	30	31	32
33. <u>0 4</u>	34	35	36	37	38	39
40. <u>0</u> <u>5</u>	41	42	43	44	45	46

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

CODES FOR CLASS OF VEHICLE

- (00) Not a motor vehicle
- (01) Subcompact/mini (wheelbase < 254 cm)
- (02) Compact (wheelbase ≥ 254 but < 265 cm)
- (03) Intermediate (wheelbase ≥ 265 but < 278 cm)
- (04) Full size (wheelbase ≥ 278 but < 291 cm)
- (05) Largest (wheelbase ≥ 291 cm)
- (09) Unknown passenger car size
- (11) Compact utility vehicle
- (12) Large utility vehicle (≤ 4,500 kgs GVWR)
- (13) Passenger van (≤ 4,500 kgs GVWR)
- (14) Other van (≤ 4,500 kgs GVWR)
- (15) Pickup truck (≤ 4,500 kgs GVWR)
- (18) Other truck (≤ 4,500 kgs GVWR)
- (19) Unknown light truck type
- (20) School bus
- (21) Other bus
- (22) Truck (> 4,500 kgs GVWR)
- (23) Tractor without trailer
- (24) Tractor-trailer(s)
- (25) Motored cycle
- (28) Other vehicle
- (99) Unknown

CODES FOR GENERAL AREA OF DAMAGE (GAD)

CDS APPLICABLE AND OTHER VEHICLES

TDC APPLICABLE VEHICLES

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back
- (T) Top
- (U) Undercarriage
- (9) Unknown

- (0) Not a motor vehicle
- (N) Noncollision
- (F) Front
- (R) Right side
- (L) Left side
- (B) Back of unit with cargo area (rear of trailer or straight truck)
- (D) Back (rear of tractor)
- (C) Rear of cab
- (V) Front of cargo area
- (T) Top
- (U) Undercarriage
- (9) Unknown

CODES FOR VEHICLE NUMBER OR OBJECT CONTACTED

(01-30) - Vehicle Number

Noncollision

- (31) Overturn rollover
- (32) Fire or explosion
- (33) Jackknife
- (34) Other intraunit damage (specify):
- (35) Noncollision injury
- (38) Other noncollision (specify):
- (39) Noncollision details unknown

Collision With Fixed Object

- (41) Tree (≤ 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify): GURRD KALL

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (72) Pedestrian
- (73) Cyclist or cycle
- (74) Other nonmotorist or conveyance
- (75) Vehicle occupant
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object



GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM

dministration	CRASHWORTHINESS DATA SYSTEM
1. Primary Sampling Unit Number 2. Case Number - Stratum DS1-93-AB-\$\phi/6\$ 3. Vehicle Number	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present) (7) Not reported (8) No driver present (9) Unknown
VEHICLE IDENTIFICATION 4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify):	Note: See variables 37 through 55 (Page 4) for information on Other Drugs 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source: PAR
6. Vehicle Model (specify): TOWN CAR / SIGNATURE Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	ACCIDENT RELATED 13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown
7. Body Type Note: Applicable codes may be found on the back of this page. 8. Vehicle Identification Number 1 L N L M B 2 F S L Y X X X X X X X X X X X X X X X X X X	4 5 mph x 1.6093 = Ø 7 3 kph 14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right
No VIN—Code all zeros Unknown—Code all nine's OFFICIAL RECORDS 9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	(08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (97) No driver present (98) Other action (specify):
10. Police Reported Travel Speed Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown mph X 1.6093 =kph	15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify): (99) Unknown
**** SKIP TO VARIABLE GV37 IF G	V07 DOES NOT EQUAL 01-49 ****

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	OCCUPANT RELATED	24. Rollover ϕ
16.	Driver Presence in Vehicle (0) Driver not present	(0) No rollover (no overturning)
	(1) Driver present (9) Unknown	Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns
17.	Number of Occupants This Vehicle Q Q (00-96) Code actual number of occupants for this vehicle (97) 97 or more	(4) Rollover, 4 or more quarter turns (specify):
	(99) Unknown	(5) Rolloverend-over-end (i.e., primarily about the lateral axis)(9) Rollover (overturn), details unknown
18.	Number of Occupant Forms Submitted $ \underline{\varphi} \underline{\lambda} $	
	VEHICLE WEIGHT ITEMS	OVERRIDE/UNDERRIDE (THIS VEHICLE)
19.	Vehicle Curb Weight	25. Front Override/Underride (this Vehicle)
	10 kilograms. (045) Less than 450 kilograms (610) 6,100 kilograms or more	26. Rear Override/Underride (this Vehicle)
	(999) Unknown	(0) No override/underride, or not an end-to-end impact
	$\frac{\cancel{\cancel{\phi}} \cancel{\cancel{\psi}} $	Override (see specific CDC) (1) 1st CDC
20		(2) 2nd CDC (3) Other not automated CDC (specify):
20.	Vehicle Cargo Weight O 0 0 0 0	
	(000) Less than 5 kilograms (450) 4,500 kilograms or more (999) Unknown	Underride (see specific CDC) (4) 1st CDC
		(5) 2nd CDC (6) Other not automated CDC (specify):
	RECONSTRUCTION DATA	(7) Medium/heavy truck or bus override
	Towed Trailing Unit (0) No towed unit	(9) Unknown
	(1) Yes—towed trailing unit (9) Unknown	HEADING ANGLE AT IMPACT FOR HIGHEST DELTA V
	Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown
	Post Collision Condition of Tree or Pole (For Highest Delta V)	27. Heading Angle For This Vehicle 998
	(0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced	28. Heading Angle For Other Vehicle 9998
	(8) Other (specify):	
	(9) Unknown	

Cate:	Configur-	ACCIDENT TYPES (Includes Intent)
	A Right Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS UNKNOWN
Single Driver	B Left Roadside Departure	DRIVE OFF CONTROL/ AVOID COLLISION SPECIFICS SPECIFICS
Š –	C Forward	PARKED VEH. STA. OBJECT PEDESTRIAN/ END SPECIFICS SPECIFICS
	D Rear-End	20 21 24 28 29 30 (EACH • 32) (EACH • 33)
Sane Trafficway Sank Direction	E Forward	STOPPED SLOWER DECEL. 21. 22. 23 S. 27. 28. 39. 31 SPECIFICS OTHER UNKNOWN 34 STOPPED SLOWER SPECIFICS SPECIFICS UNKNOWN 34 STOPPED SLOWER SPECIFICS SPECI
23 == ==	Impact F Sideswipe Angle	TRACTION LOSS TRACTION LOSS WITH VEH. WITH OBJECT OTHER UNKNOWN (EACH · 48) SPECIFICS OTHER (EACH · 49) SPECIFICS UNKNOWN
ctum	G Head-On	50 51 (EACH • 62) (EACH • 63) SPECIFICS SPECIFICS UNKNOWN
Saine Trafficway Oppiwite Direction	H Forward Impact	CONTROL/ TRACTION LOSS TRACTION LOSS WITH VEH. SS CONTROL/ WITH OBJECT OTHER UNKNOWN
=	I. Sideswiper Angle	(EACH • 66) (EACH • 67) SPECIFICS SPECIFICS UNKNOWN LATERAL MOVE OTHER
Change Trafficway Vehicle Turning	J. Turn Across Path	INITIAL OPPOSITE INITIAL SAME DIRECTIONS DIRECTIONS IEACH • 74) (EACH • 76) RPECIFICS SPECIFICS OTHER UNKNOWN
2	K. Turn Into Path	TURN INTO SAME DIRECTION TURN INTO OPPOSITE DIRECTIONS OTHER UNKNOWN
V Increcting Paths (Vehicle Damage)	L. Straught Paths	(EACH - 90) SPECIFICS SPECIFICS UNKNOWN OTHER
VI Miscel· lancous	M. Backing Eic.	SO Other Accident Type OR OBJECT BACKING VEH. SO OTHER VEH. OR OBJECT

29. Basis for Total Delta V (highest)	Secondary Highest 32. Lateral Component of Delta V (5) ϕ ϕ 3
 Delta V Calculated (1) CRASH program—damage only routine (2) CRASH program—damage and trajectory routine (3) Missing vehicle algorithm Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions. (5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data. (6) All vehicle and collision conditions are within 	32. Lateral Component of Delta V (2) (2) (3) (3) (3) (3) (4) (5) (6) (5) (5) (6) (5) (6) (6) (6) (6) (6) (6) (6) (6) (6) (6
scope of one of the acceptable reconstruction programs, but there is insufficient data available.	34. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear
COMPUTER GENERATED DELTA V Secondary Highest 30. Total Delta V	reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
/7.9 Nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify): Repair INSPECTION + PHOTOGRAPHS
31. Longitudinal Component of Delta V	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR T	HIS VEHICLE? [] YES [X] NO

IS OLDMISS APPLICABLE FOR THIS VEHICLE? [] YES [X] NO

IF YES: IS A COMPLETED OLDMISS PROGRAM SUMMARY INCLUDED? [] YES [] NO

- 37. Police Reported Other Drug Presence
 (0) No other drugs present
 (1) Yes (other drug present)
 (7) Not reported
 (8) No driver present
 (9) Unknown
- 38. Police Reported Drug Evaluation Classification ϕ
 - (0) No DEC process available or given
 - (1) DEC process given, results known
 - (2) DEC process given, results unknown
 - (3) DEC process available, unknown if given
 - (8) No driver present
- 39. Other Drug Specimen Test Type For Driver
 - (0) No specimen test given
 - (1) Blood test
 - (2) Urine test
 - (3) Other specimen tests (specify):
 - (7) Unspecified specimen test
 - (8) No driver present
 - (9) Unknown if specimen test given

DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER

	DEC Test	Specimen Test
	Results	Results
Narcotic Drug	40. <i>O</i>	41. <i>Ø</i>
Depressant Drug	42. <u>6</u>	43. <i>1</i>
Stimulant Drug	44. 6	45. 7
Hallucinogen Drug	46. <i>1</i>	47. 6
Cannabinoid Drug	48. <u>d</u>	49. <u>(</u>
Phencyclidine (PCP)	50. <u>/</u> /	51. 📆
Inhalant Drug	52. <u>/</u> /	53. 📆
Other Drug (Excluding	54. <i>Φ</i>	55. <i>To</i>
Nicotine, Aspirin, Alcohol,		

Codes For DEC Test Results

Drugs Administered Post-Crash)

- (0) No DEC test given
- (1) Passed DEC test
- (2) Failed DEC test
- (3) DEC test given-results unknown
- (8) No driver present
- (9) Unknown if DEC test given

Codes for Specimen Test Results

- (0) No specimen test given
- (1) Drug not found in specimen
- (2) Drug found in specimen
- (7) Specimen test given, results unknown or not obtained
- (8) No driver present
- (9) Unknown if specimen test given

OTHER DATA	61. Rollover Initiation Object Contacted ϕ
56. Driver's Zip Code	The state of the s
(00000) Driver not present (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code (99999) Unknown	62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
57. Driver's Race/Ethnic Origin (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify):	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown
(9) Unknown 58. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance	 (0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(7) Fire truck or car	PRECRASH DATA
(8) Other (specify):(9) Unknown	64. Pre-Event Movement (Prior to Recognition of Critical Event)
ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blank. If GV24 (Rollover) = 0, then GV59-GV63 must equal 0. If GV24 = 9, then GV59-GV63 must equal 9.	 (01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
59. Rollover Initiation Type (O) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify):	(06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
 (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown 	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (57) Fence (01-30) - Vehicle Number (58) Wall (59) Building Noncollision (60) Ditch or culvert (31) Turn-over — fall-over (61) Ground (33) Jackknife (62) Fire hydrant (63) Curb Collision With Fixed Object (64) Bridge (41) Tree (≤ 10 cm in diameter) (68) Other fixed object (specify): (42) Tree (> 10 cm in diameter) (43) Shrubbery or bush (69) Unknown fixed object (44) Embankment Collision with Nonfixed Object (45) Breakaway pole or post (any diameter) (71) Motor vehicle not in-transport (76) Animal Nonbreakaway Pole or Post (77) Train (78) Trailer, disconnected in transport (50) Pole or post (≤ 10 cm in diameter) (51) Pole or post (> 10 cm but \leq 30 cm in (88) Other nonfixed object (specify): diameter) (52) Pole or post (> 30 cm in diameter) (89) Unknown nonfixed object (53) Pole or post (diameter unknown) (98) Other event (specify): (54) Concrete traffic barrier (55) Impact attenuator (99) Unknown event or object (56) Other traffic barrier (includes guardrail)

(specify):

PRECRASH DATA (Continued)

65. Critical Precrash Event



This Vehicle Loss of Control Due To:

- (01) Blow out or flat tire
- (02) Stalled engine
- (03) Disabling vehicle failure (e.g., wheel fell off) (specify):
- (04) Non-disabling vehicle problem (e.g., hood flew up) (specify):
- (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify):
- (06) Traveling too fast for conditions
- (08) Other cause of control loss (specify):
- (09) Unknown cause of control loss

This Vehicle Traveling

- (10) Over the lane line on left side of travel lane
- (11) Over the lane line on right side of travel lane
- (12) Off the edge of the road on the left side
- (13) Off the edge of the road on the right side
- (14) End departure
- (15) Turning left at intersection
- (16) Turning right at intersection
- (17) Crossing over (passing through) intersection
- (19) Unknown travel direction

Other Motor Vehicle In Lane

- (50) Stopped
- (51) Traveling in same direction with lower speed (i.e., lower steady speed or decelerating)
- (52) Traveling in same direction with higher speed
- (53) Traveling in opposite direction
- (54) In crossover
- (55) Backing
- (59) Unknown travel direction of other motor vehicle in lane

Other Motor Vehicle Encroaching Into Lane

- (60) From adjacent lane (same direction)—over left lane line
- (61) From adjacent lane (same direction)—over right lane line
- (62) From opposite direction—over left lane line
- (63) From opposite direction—over right lane line
- (64) From parking lane
- (65) From crossing street, turning into same direction
- (66) From crossing street, across path
- (67) From crossing street, turning into opposite direction
- (68) From crossing street, intended path not known
- (70) From driveway, turning into same direction
- (71) From driveway, across path
- (72) From driveway, turning into opposite direction
- (73) From driveway, intended path not known
- (74) From entrance to limited access highway
- (78) Encroachment by other vehicle—details unknown

Pedestrian or Pedalcyclist, or Other Nonmotorist

- (80) Pedestrian in roadway
- (81) Pedestrian approaching roadway
- (82) Pedestrian unknown location
- (83) Pedalcyclist or other nonmotorist in roadway (specify):
- (84) Pedalcyclist or other nonmotorist approaching roadway (specify):
- (85) Pedalcyclist or other nonmotorist—unknown location (specify):

Object or Animal

- (87) Animal in roadway
- (88) Animal approaching roadway
- (89) Animal—unknown location
- (90) Object in roadway
- (91) Object approaching roadway
- (92) Object—unknown location
- (98) Other critical precrash event (specify):
- (99) Unknown

For Corrective Actions Attempted see variable GV14 (Attemped Avoidance Manuever)

66. Precrash Stability After Avoidance Maneuver



- (0) No avoidance maneuver
- (1) Tracking
- (2) Skidding longitudinally—rotation less than 30 degrees
- (3) Skidding laterally—clockwise rotation
- (4) Skidding laterally—counterclockwise rotation
- (7) Other vehicle loss-of-control (specify):
- (8) No driver present
- (9) Precrash stability unknown
- 67. Precrash Directional Consequences of Avoidance Maneuver (Corrective Action)



- (0) No avoidance maneuver
- (1) Vehicle stayed in travel lane where avoidance maneuver was initiated
- (2) Vehicle stayed on roadway but left travel lane where avoidance maneuver was initiated
- (3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was initiated
- (4) Vehicle departed roadway
- (5) Avoidance maneuver initiated off roadway
- (8) No driver present
- (9) Directional consequences unknown
- *** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), ***
 DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.
 - *** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
 THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
 OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Department of Transportation

National Highway Traffic Safety Administration	INTERIOR V
Primary Sampling Unit Number	
2. Case Number - Stratum	DS1-93-AB-010
3. Vehicle Number	<u> </u>
INTEGRITY	
4. Passenger Compartment Integri (00) No integrity loss	ty <u>\$\phi\$</u>
Yes, Integrity Was Lost Through (O1) Windshield (O2) Door (side) (O3) Door/hatch (back door) (O4) Roof (O5) Roof glass (O6) Side window (O7) Rear window (backlight) (O8) Roof and roof glass (O9) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window (12) Windshield and side window (13) Door and side window (98) Other combination of above (speci	•
Door, Tailgate or Hatch Opening 5. LF / 6. RF / 7. LR / 8. RI	R
 (0) No door/gate/hatch (1) Door/gate/hatch remained closed at (2) Door/gate/hatch came open during (3) Door/gate/hatch jammed shut (8) Other (specify): 	
(9) Unknown	
Damage/Failure Associated with Doc Opening in Collision. If IV05-IV09 = 10. LF 11. RF 12. LR 13. (0) No door/gate/hatch or door not ope Door, Tailgate or Hatch Came Open Dur (1) Door operational (no damage)	≠ 2, Then code Ø RR <u>Ф</u> 14. TG/H <u>Ø</u> ned
 (2) Latch/striker failure due to damage (3) Hinge failure due to damage (4) Door structure failure due to damag (5) Door support (i.e., pillar, sill, roof sie etc.) failure due to damage 	

(6) Latch/striker and hinge failure due to damage

GLAZING

Glazing Damage from Impact Forces

- 20. BL <u>#</u> 21. Roof <u>#</u> 22. Other <u>#</u>
 - (0) No glazing damage from impact forces
 - (2) Glazing in place and cracked from impact forces
 - (3) Glazing in place and holed from impact forces
 - (4) Glazing out-of-place (cracked or not) and not holed from impact forces
 - (5) Glazing out-of-place and holed from impact forces
 - (6) Glazing disintegrated from impact forces
 - (7) Glazing removed prior to accident
 - (8) No glazing
 - (9) Unknown if damaged

Glazing Damage from Occupant Contact

23. WS ϕ 24. LF ϕ 25. RF ϕ 26. LR ϕ 27. RR ϕ

28. BL $\underline{\phi}$ 29. Roof $\underline{\phi}$ 30. Other $\underline{\phi}$

- (0) No occupant contact to glazing or no glazing
- (1) Glazing contacted by occupant but no glazing damage
- (2) Glazing in place and cracked by occupant contact
- (3) Glazing in place and holed by occupant contact
- (4) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (5) Glazing out-of-place by occupant contact and holed by occupant contact
- (6) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant

If No Glazing Damage And No Occupant Contact or No Glazing, Then Code IV31 Through IV46 As Ø

Type of Window/Windshield Glazing

31. WS \emptyset 32. LF \emptyset 33. RF \emptyset 34. LR \emptyset 35. RR \emptyset

36. BL $\cancel{\Phi}$ 37. Roof $\cancel{\Phi}$ 38. Other $\cancel{\Phi}$

- (0) No glazing contact and no damage, or no glazing
- (1) AS-1 Laminated
- (2) AS-2 Tempered
- (3) AS-3 Tempered-tinted
- (4) AS-14 Glass/Plastic
- (8) Other (specify):
- (9) Unknown

Window Precrash Glazing Status

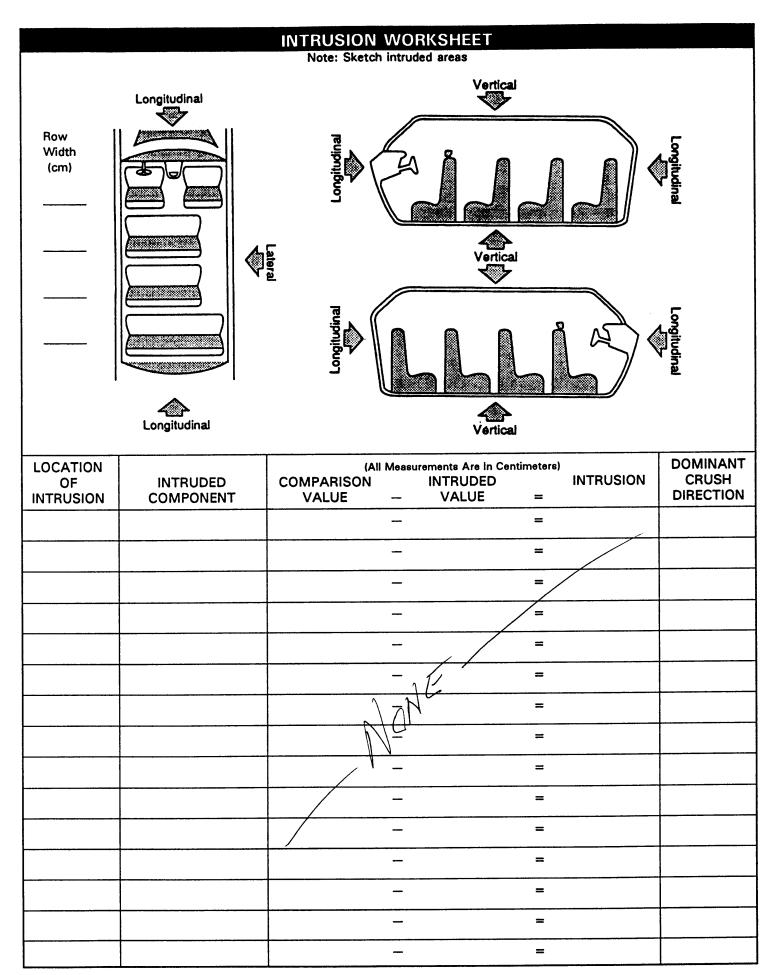
41. RF ϕ 42. LR ϕ 43. RR ϕ

44. BL ϕ 45. Roof ϕ 46. Other ϕ

- (O) No glazing contact and no damage, or no glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (9) Unknown

(9) Unknown

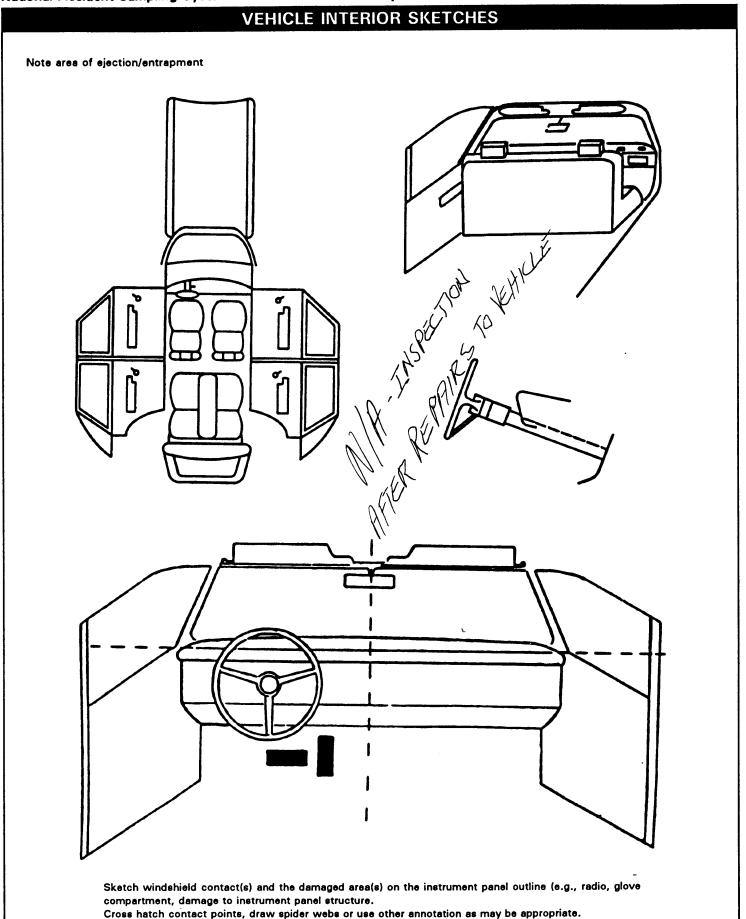
(&) Other failure (specify):



(All Me	sasurements Are in Centimete	ers)		
ISON VALUE -	DAMAGE VALUE	=	DEFORMATION	
φ -	Φ	=	ϕ	
<i>d</i> -	Þ	=	Ø	
6 -	<i>A</i>	=	<u></u>	
Ø -		=	1	
7	/		,	
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				٠

Vational Accident Sampling System-Crashworthness Data System. Interior Vehicle 1 Office 1 Office 1					
	OCCUPANT AREA INTRUSION				
Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT					
Location o Intrusion	Dominant f Intruding Magnitude Crush Component of Intrusion Direction	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
1st 47	48 49 50	(03) Instrument panel center (04) Instrument panel right (05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar			
2nd 51	52 53 54	(08) C-pillar (09) D-pillar (10) Door panel (side) (12) Roof (or convertible top)			
3rd 55	56 57 58	(13) Roof side rail (14) Windshield (15) Windshield header (16) Window frame			
4th 59	60 61 62	(17) Floor pan (includes sill) (18) Backlight header (19) Front seat back (20) Second seat back			
5th 63	64 65 66	(21) Third seat back (22) Fourth seat back (23) Fifth seat back (24) Seat cushion			
6th 67	68 69 70	(25) Back door/panel (e.g., tailgate) (26) Other interior component (specify): (27) Side panel - forward of the A (A2)-pillar			
7th 71	72 73 74	(28) Side panel - rear of the A (A2)-pillar Exterior Components			
8th 75	76 77 78	(30) Hood (31) Outside surface of this vehicle (specify):			
9th 79	80 81 82	(32) Other exterior object in the environment (specify): (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s)			
10th 83	84 85 86	(specify):(99) Unknown			
Front Seat (11) Left (12) Middle (13) Right Second Seat (21) Left (22) Middle	Fourth Seat (41) Left (42) Middle (43) Right (97) Catastrophic (98) Other enclosed	MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters (2) ≥ 8 centimeters but < 15 centimeters (3) ≥ 15 centimeters but < 30 centimeters (4) ≥ 30 centimeters but < 46 centimeters (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters (7) Catastrophic (9) Unknown			
(23) Right Third Seat (31) Left (32) Middle (33) Right	(99) Unknown	DOMINANT CRUSH DIRECTION (1) Vertical (2) Longitudinal (3) Lateral (7) Catastrophic (9) Unknown			

STEERING COLUMN	93. Location of Steering Rim/Spoke
87. Steering Column Type 2. (1) Fixed column	Deformation (00) No steering rim deformation
(2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):	Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D
, -, -, -, -, -, -, -, -, -, -, -, -, -,	Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke
88. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	(08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown
	INSTRUMENT PANEL
89. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	94. Odometer Reading kilometers—Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown
90. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	(999) UNKNOWN
91. Blank (This variable is left blank so that numbering consistency can be maintained with the 1988-93 CDS.	95. Instrument Panel Damage from Occupant Contact? (0) No (1) Yes (9) Unknown
92. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters	96. Knee Bolsters Deformed from Occupant Contact? (0) No (1) Yes (8) Not present (9) Unknown
(15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	97. Did Glove Compartment Door Open During Collision(s)? (0) No (1) Yes (8) Not present (9) Unknown



Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

POINTS OF OCCUPANT CONTACT								
Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidenc Level of Contact Point			
Α								
В								
С								
D								
E								
F								
G								
Н								
l								
J								
K								
L								
M								
N								

FRONT

- (01; Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- (08) Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- (18) Windshield reinforced by exterior object (specify):_____
- (19) Other front object (specify):

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar

- (23) Left B-pillar
- (24) Other left pillar (specify):
- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- (36) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)

- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking brake

RFAR

- (60) Backlight (rear window)
- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

CONFIDENCE LEVEL OF CONTACT POINT

- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

	Assessment Form.	AIR BAGS		
		Left	Right	
F	Availability/Function	1		
Ř	Deployment	1	1	
S	Failure			
Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag Nofunctional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown		Air Bag System Deployment (O) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown	Did Air Bag System Fail? (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown	
		Left	Right	
	Availability/Function	<u> </u>	<i>Q</i> ,	
F	Use	ϕ	Ø	
	Туре	\mathcal{P}	Ø	
R S T	Proper Use	ϕ	#	
	Failure Modes	The state of the s		

- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (O) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperly

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):

(8)	Other improper	use	of	automatic	belt
	system				
	(specify):				

(9) Unknown

- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

MANUAL RESTRAINTS

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Ocupant Assessment Form.

If a Child safety seat is present, encode the data on the back of this page.

If the vehicle has automatic restraints available, encode the appropriate data on the back of the previous page.

		Left	Center	Right
F	Availability	4	ϕ	4
R	Use	04	ΦÞ	Ø4
S	Failure Modes	/	'φ	/
S	Availability	4	3,	4
SECOZD	Use	ΦΦ	40	00
Ň	Failure Modes	'φ	Ø	φ
Ţ	Availability			
H	Use			
R	Failure Modes			
ō	Availability			
T H	Use			
E R	Failure Modes			

Manual (Active) Belt System Availability

- (0) None available
- (1) Belt removed/destroyed
- (2) Shoulder belt
- (3) Lap belt
- (4) Lap and shoulder belt
- (5) Belt available type unknown

Integral Belt Partially Destroyed

- (6) Shoulder belt (lap belt destroyed/removed)
- (7) Lap belt (shoulder belt destroyed/removed)
- (8) Other belt (specify):
- (9) Unknown

Manual (Active) Belt System Use

- (00) None used, not available, or belt removed/destroyed
- (01) Inoperable (specify):
- (02) Shoulder belt
- (03) Lap belt
- (04) Lap and shoulder belt
- (05) Belt used type unknown

- (08) Other belt used (specify):
- (12) Shoulder belt used with child safety seat
- (13) Lap belt used with child safety seat
- (14) Lap and shoulder belt used with child safety seat
- (15) Belt used with child safety seat type unknown
- (18) Other belt used with child safety seat (specify):
- (99) Unknown if belt used

Manual (Active) Belt Failure Modes During Accident

- (0) No manual belt used or not available
- (1) No manual belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other manual belt failure (specify):
- (9) Unknown

				BE	ST AVAILABLE
	FETY SEAT F				
When a child safety seat is present enter the occupant's number using the codes	the occupant's null listed below. Co	umber in the mplete a col	first row and c umn for each (omplete the colu child safety seat	ımn below present.
Occupant Number					
1. Type of Child Safety Seat					
2. Child Safety Seat Orientation		6			
3. Child Safety Seat Harness Usage		0			
4. Child Safety Seat Shield Uasge					
5. Child Safety Seat Tether Usage					
6. Child Safety Seat Make/Model	Specif	y Below for	Each Child Sa	fety Seat	
1. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat type (9) Unknown child safety seat type (9) Unknown if child safety seat use 2. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed for Forward Facing for The Age/Weight (11) Rear facing (12) Forward facing (13) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation Formal Seat Seat Seat Seat Seat Seat Seat Seat	e sed	4. Child S 5. Child S Note: C (00) N Not Designa (02) A (03) C (09) U ac Designa (11) H (12) H (19) U Unknow (21) H (22) H (29) U (99) U	signed with Hafter market hadded, not used fter market hahild safety sea arness/shield/tnknown if hardarness/shield/tarness/shield/tarness/shield/tarness/shield/tarness/shield/tnknown if hardarness/shield/tnknown if hardarness/shield/tnknown if childafety Seat Ma	eld Usage her Usage Are Used for Va seat arness/Shield/Ter rness/shield/teth trused, but no a ether added ness/shield/tether sether not used tether used ness/shield/tethe I With Harness/S tether not used tether used ness/shield/tethe tether used ness/shield/tethe d safety seat us	ther her used ifter market er used Shield/Tethe er used

(21) Rear facing

(22) Forward facing(28) Other orientation (specify):

(99) Unknown if child safety seat used

(29) Unknown orientation

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
F	Head Restraint Type/Damage	3	ϕ	3
ı	Seat Type	Φ6	ΦΦ	\$6
RS	Seat Performance	1	ϕ	1
Т	Seat Orientation		φ	/
S	Head Restraint Type/Damage	Ø	ϕ	ϕ
SEC	Seat Type	Ø3	<i>d</i> 3	<i>d</i> 3
O N	Seat Performance	1	ĺ ĺ	1
D	Seat Orientation			1
т	Head Restraint Type/Damage			
Ĥ	Seat Type			
R	Seat Performance			
D	Seat Orientation			
0	Head Restraint Type/Damage			
Ť	Seat Type			
Ε	Seat Performance			/
R	Seat Orientation			

Head Restraint Type/Damage by Occupant at This **Occupant Position**

- (0) No head restraints
- Integral no damage (1)
- Integral damaged during accident (2)
- (3)
- Adjustable no damage Adjustable damaged during accident (4)
- (5) Add-on — no damage
- Add-on damaged during accident (6)
- (8) Other Specify):
- (9) Unknown

Seat Type (this Occupant Position)

- (00) Occupant not seated or no seat
- (01) Bucket
- (02) Bucket with folding back
- (03) Bench (04) Bench with separate back cushions
- (05) Bench with folding back(s)
- (06) Split bench with separate back cushions
- (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported)
- (09) Other seat type (specify):
- (10) Box mounted seat (i.e., van type)
- (99) Unknown

Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed specify:
- (4) Seat tracks/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) Forward facing seat
- (2) Rear facing seat
- (3) Side facing seat (inward)
- (4) Side facing seat (outward)
- (8) Other (specify):
- (9) Unknown

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						
Ejection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown Ejection Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear	(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown Ejection Medium (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify):		ify):	(8) Ot (9) Ur Medium to Impa (1) Op (2) Cl (3) Int	ct) pen	n (specify):
ENTRAPMENT No [1 Yes Describe entrapment mechanism:						
Component(s):						

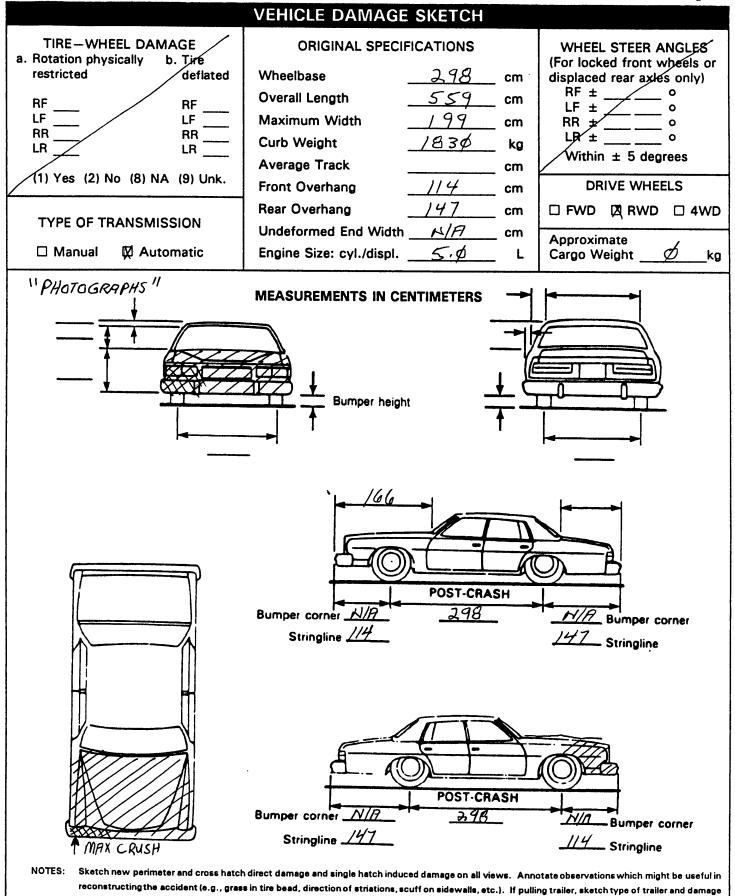
EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Administration 3. Vehicle Number 1. Primary Sampling Unit Number DS1-93-AR-0/6 2. Case Number - Stratum VEHICLE IDENTIFICATION VIN 1 L N L M 8 2 F 5 L Y X X X X X X Model Year 9 Ø Vehicle Make (specify): LINCOLN Vehicle Model (specify): Town CAR Hodgor **LOCATOR** Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts. Location of Field L Location of Direct Damage Specific Impact No. NIA RIGHT FRONT CORNER 01 CRUSH PROFILE IN CENTIMETERS ٥ NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space). Measure and document on the vehicle diagram the location of maximum crush. Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts. Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush. Use as many lines/columns as necessary to describe each damage profile. Direct Damage Specific Plane of Impact Field Ca ±D C_{Δ} CE Width Max C, C₂ C₃ **Impact** C-Measurements Crush (CDC) Number 110 0244 - PHOTOGRAPHS FRONT PLANE DC Ø1

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	117.3	inches	X	2.54	=	<u>298</u> cm
Overall Length	234.1	inches	X	2.54	=	<u>5 5 9 cm</u>
Maximum Width	<u>\$ 78.3</u>	inches	x	2.54	=	<u> 199</u> cm
Curb Weight	4, \$ 2, 6	pounds	X	. 4536	=	<u>_/, 8 3 ∮ kg</u>
Average Track	\$ 63.1	inches	X	2.54	=	<u>/ 6</u> <u>Ø</u> cm
Front Overhang	Ø 44.9	inches	X	2.54	=	<u> </u>
Rear Overhang	\$ 57.9	inches	X	2.54	=	<u>/ 4 7</u> cm
Undeformed End Width	<i>N/A</i>	inches	x	2.54	=	<i>\\<u>/</u>A</i> cm
Engine Size: cyl./displ.	5 \$ \$ \$	СС	X	.001	=	<u>5.</u> ø ∟
	3 Ø S					<u>5.ø</u> L



Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

received on the back of this page.

CDC WORKSHEET								
CODES FOR OBJECT CONTACTED								
(01-30)	- Vehicle Number		Fence Wall					
Noncoll	ision		Building					
	Overturn – rollover		Ditch or culvert					
, ,	Fire or explosion		Ground					
	Jackknife		Fire hydrant					
	Other intraunit damage (specify):		Curb					
(0 .,	Carol marant camego popular,		Bridge					
(35)	Noncollision injury	(68)	Other fixed object (specify):					
	Other noncollision (specify):							
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(69)	Unknown fixed object					
(39)	Noncollision — details unknown							
, ,			n with Nonfixed Object					
Collisio	n With Fixed Object		Motor vehicle not in-transport					
	Tree (≤ 10 cm in diameter)		Pedestrian					
(42)	Tree (> 10 cm in diameter)		Cyclist or cycle					
	Shrubbery or bush	(74)	Other nonmotorist or conveyance					
(44)	Embankment							
			Vehicle occupant					
(45)	Breakaway pole or post (any diameter)	• •	Animal					
			Train					
	akaway Pole or Post		Trailer, disconnected in transport					
	Pole or post (≤ 10 cm in diameter)	(88)	Other nonfixed object (specify):					
(51)	Pole or post (> 10 cm but ≤ 30 cm in							
	diameter)	(89)	Unknown nonfixed object					
	Pole or post (> 30 cm in diameter)							
(53)	Pole or post (diameter unknown)	(98)	Other event (specify):					
		1001						
	Concrete traffic barrier	(99)	Unknown event or object					
	Impact attenuator							
(56)	Other traffic barrier (includes guardrail)							
	(specify):							

DEFORMATION CLASSIFICATION BY EVENT NUMBER

Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent
<u>d</u>	Ø a	9 9 9	9 9	9	9	9	9	99
φ <u>2</u>		ϕ ϕ 5	$\phi \phi$	E	五	E	W	$\frac{\overline{\phi}}{\overline{\bot}}$
								
								
								
								
						•		

COLLISION DEFORMATION CLASSIFICATION								
HIGHEST (HIGHEST DELTA "V"							
Accident Event Sequence Number	Object Contacted	(1) (2 Direction	on Deformation	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent	
4. <u>\$\phi \t</u>	5. <u>5</u> 6	6	<u>2</u> 7. <u>F</u>	8. <u>Z</u>	9. <u>E</u>	10. <u>W</u>	11. <u>ø</u> /	
Second Hig	ghest Delta "V	.						
12. <u></u>	13. <u>Ø</u> <u>2</u>	149_	<u>9</u> 15. <u>9</u>	16. <u>9</u>	17. <u>9</u>	189_	19. <u>9</u> 9_	
		CF	RUSH PROFILE	IN CENTIM	ETERS			
	The crush profile for the damage described in the CDC(s) above should be documented in the appropriate space below. (ALL MEASUREMENTS ARE IN CENTIMETERS.)							
HIGHEST I	DELTA "V"							
20. 	21. 	C ₂			С _Б	Св	22. 	
	"CDC ONLY - PHOTOGRAPHS" +							
Second Hi	ghest Delta "V	, w						
23. 	24. 	C ₂		<u>C₄</u>	<u>С</u> _Б	Св	25. 	
	MASKED DAMAGE " +							
1	Cs Documented Coded on The ted File?	<u>\$</u>	27. Researcher's As of Vehicle Dispo (0) Not towed d vehicle dama (1) Towed due t vehicle dama (9) Unknown	osition due to age co age	(999) (I Wheelbase _Code to the learest centime Jnknown		
				417	. <u>3</u> inches X 2.	54 = <u>298</u>	centimeters	

	Is This A Multi-Stage Manufactured Vehicle And/Or A Certified Altered Vehicle? (0) No post manufacturer modifications (1) Yes - post manufacturer modifications (specify): (Include photograph of CERTIFICATION PLACARD in case report) (9) Unknown if vehicle is modified Fire Occurrence (0) No fire Yes, fire occurred (1) Minor (2) Major (9) Unknown	\$ 31. Origin of Fire (0) No fire (1) Vehicle exterior (front, side, back, top) (2) Exhaust system (3) Fuel tank (and other fuel retention system parts) (4) Engine compartment (5) Cargo/trunk compartment (6) Instrument panel (7) Passenger compartment area (8) Other location (specify): (9) Unknown 32. Type of Fuel Tank (0) No fuel tank (electrical vehicle) (1) Metallic (2) Non-metallic (9) Unknown
**		VAS NOT TOWED AND WAS NOT AN AOPS *** T COMPLETE THE INTERIOR VEHICLE FORM.



U.S. Department of Transportation

National Highway Traffic Safety Administration

INTERVIEW FORM (A)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Primary Sampling Unit Number	Interviewee(s) Role or Name(s): DRIVER OF			
2. Case Number - Stratum <u>DS/-93-AB-\$16</u>	VEHICLE 1			
3. Vehicle Number <u>Ø /</u>				
Review all available information and interview of acquisition of all pertinent data.	questions prior to conducting interview(s) to ensure the			
If the driver was not the person interviewed, w	vas an appointment made for a follow-up interview?			
DRIVER'S DESCR	IPTION OF ACCIDENT EVENTS			
The driver stated that she was traveling northbound on Route and was turning left onto a entrance ramp of the Parkway. When she started to travel on the ramp she lost control of the vehicle on the wet roadway. The driver stated that she struck a guardrail on the right side of the entrance ramp.				
The driver indicated that shows after the airbag deployed.	e smell chemical order and seen smoke			
The driver stated that she was taken to Hospital and was treated and release approximately 5 hours later. Her injuries consisted of facial burns (whole face), injury to her right eye, burn on her right wrist.				
The driver's info. Age: 61 Height: 5'1" Weight: wouldn't say				
The right front passenger Age: 29 Height: 5'4" Weight: 117 lbs.				
OCCUPANT'S DES	CRIPTION OF ACCIDENT EVENTS			

ACCIDENT DIAGRAM



The use of this diagram is optional. It may serve to aid in relating interviewee accident trajectory data (i.e., pre-impact to FRP orientations) to identifiable objects in the environment.

NORTH

INTERVIEW FORM (B)

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number 2. Case Number - Stratum DS/-93-AB-6/6 3. Vehicle Number	Interviewee(s) Role or Name(s): DRIVER OF VEHICLE 1
ACCIDEN	T DATA QUESTIONS
1. Can you tell me in which direction you were travely and the series of	

tional Accident Sampling System-Crashworthiness Data	System: Interview Form Page 2
. Primary Sampling Unit Number	3. Vehicle Number
2. Case Number - Stratum DSI -93- AB-OVG	4. Occupant Number $\underline{\phi} \underline{J}$
VEHICLE/DRIVER D	DATA QUESTIONS
1. Can you tell me the year, make, model of your vehicle? 1 9 9 0 LINC TOW CAR Year Make Model 2. Can you describe the damage to your vehicle? RIGHT FRONT CARNER	7b. Were any of the belts removed or not functional prior to the accident? ['] No [] Yes (If "Yes", specify which belt and describe problem)
3. Was there any previous damage to your vehicle that is not related to this accident? [**No] Yes (If "yes", describe below)	8. Do any of the front belts move along a motorized track when the door is opened or closed? [/ No (If "No", go to question 9) [] Yes (If "Yes", what seat location?) [] Left Front [] Right Front
4. Did any of the doors (hatch, tailgate) open during the accident? [// No [] Yes (If "Yes", describe below)	8a. Were the motorized belts working properly before the accident? [] No (If "No", describe condition below)
5. Did any of the windows break during the accident? [+ No [] Yes (If "Yes", describe below)	[] Yes 8b. Were the belts connected to the track prior to the accident? [] No [] Yes [] Unknown
6. Does your vehicle have a glove compartment? [] No [] Yes	9. Do any of the front "seat" belts attach to the door such that when the door is opened the belt travels with the door? [W No (go to question 10) [] Yes
 6a. Did the glove compartment door come open during the accident? I No I Yes I Unknown 7. Does your vehicle have "seat belts"? I No (If "No", go to question 7b) I Yes (If "Yes", go to question 7a) 	9a. Does this belt come across the? [] Chest only [] Lap and chest 9b. Was this belt connected prior to the accident? [] No [] Yes [] Unknown
7a. Can you describe the type of seat belt for each seat? Driver's seat [] Lap [] Lap and shoulder Front seat middle [] Lap [] Lap and shoulder Front seat right [] Lap [] Lap and shoulder Rear seat left [] Lap [] Lap and shoulder Rear seat right [] Lap [] Lap and shoulder Rear seat right [] Lap [] Lap and shoulder (Identify seat belts for third row and beyond	10. Is your vehicle equipped with a driver's side air bag? [] No (go to question 11) [Ves (go to question 10a) [] Unknown (go to question 11) 10a. Did the air bag inflate during the accident? [] No (go to questions 10b and 10c) [Ves (go to question 10e)

Yes
Unknown

onal Accident Sampling System-Crashworthiness Da	ata System: Interview Form	Page 4
. Primary Sampling Unit Number	_ 3. Vehicle Number	<u>Ø /</u>
. Case Number - Stratum <u>DSI-93-A8-&/</u>		<u> 4 / </u>
WHITE VEHICLE/DRIVER DATA	QUESTIONS (CONTINUED)	第四个
	OPTIONAL	
2h. Were any of these items added after you owned the child safety seat? [] Yes	If you do not know where the vehicle is or permission is needed for inspection.	if the owner's
(specify) [] No [] Unknown	15. Do you know where the vehicle is curre	ntly located?
2i. Were any of these items used during the accident? [] Yes (If "Yes", check all that apply) () Harness () Shield () Tether strap)	16. May I take a look at your vehicle to damage? [] No [] Yes	o assess the
No [] Unknown	DRIVER ONLY	
13. Was there any cargo in your vehicle? [No (If "No", go to question 14) [] Yes (If "Yes", go to question 13a) [] Unknown 13a. Can you estimate the weight of the cargo?	17. What race do you consider yourself? White Black American Indian, Eskimo or Aleut, Pacific Islander Other (specify: Unknown. 18. Are you of hispanic origin? No Yes	

tional Accident Sampling System-	Crashworthiness Data	System: Interview Form		Page 5
. Primary Sampling Unit Number		3. Vehicle Number	ϕ	
2. Case Number - Stratum	DS1-93-AB-616	4. Occupant Number	ϕ	
		A QUESTIONS		開展。
1. Was there anyone else in your ver accident? [] No (If "No", go to question 4 [] Yes (If "Yes", specify numb and then go to question 3)	,	5d. Were you (Was he/she) [// Sitting upright or [] Leaning to left side, or [] Leaning to right side? OCCUPANT: EJECTION	ON W	
2. How many? (1) One other person [2] Two other persons [3] Three other persons [4] Four other persons [5] Five other persons [6] Six other persons [7] Seven or more other persons (specify number:)		6. Were you (Was he/she) or any part of thrown from the vehicle during the action (I) No (If "No", go to question 7) [] Yes (If "Yes", go to question 6a [] Unknown 6a. Can you remember what part of the (he/she was) thrown out? [] No [] Yes (Describe:)	cciaent?) e vehicle you	
3. Where was this person sitting? ([12] [13] [21] [22] [23] [31] [32] [33] [] Other (specify:) OCCUPANT CHARAC		7. Were you (Was he/she) wearing a sthe accident? No (If "No", go to question 8) Yes Unknown		
4. Can I have your (his/her) height,		7a. Were you (Was he/she) wearing the		
Height (a) Weight (ux) Sex: [] Male [Y Female		[] Lap belt? [Lap and Shoulder belt? [] Shoulder belt?		•
5. Can you tell me how you (he/she vehicle?		7b. Can you describe how you were (he hap belt? [] Across the stomach [— Low on lap [] Other (specify:)		
Upright - SEAT Page To STEERING WHEE 5a. Can you describe the location prior to the collision? UNK	of your (his/her) feet just	7c. Can you describe how you were () the shoulder belt? (V) Over the shoulder		
5b. Can you describe the location of hands ON STEETS	of your (his/her) arms?	7d. Did any part of the belt system brown [] No [] Yes (If "Yes", describe) [] Unknown OCCUPANT ENTRA		
5c. Was your (his/her) back resting No (If "No", describe the Yes Unknown	against the seat back rest position)			

Page 6

PSU Number

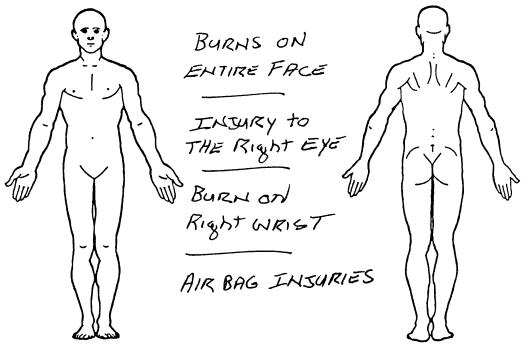
Case Number - Stratum DS 1-93-48-5/6 Vehicle Number Ø /

Occupant Number ϕ /

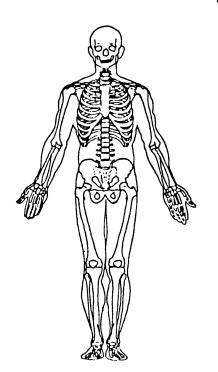
INJURY DATA FROM INTERVIEWEE(S)

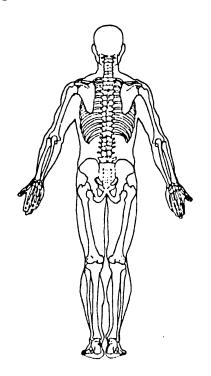
Indicate the Location, Lesion, Detail, and Source of all injuries. Specify interviewee(s): DRIVER

SOFT TISSUE/INTERNAL INJURIES



SKELETAL INJURIES





The space provided on the back of this page may be used to document injuries noted by the interviewee(s).

onal Accident Sampling System-Crashworthiness Data	
Primary Sampling Unit Number	3. Vehicle Number
Case Number - Stratum	4. Occupant Number
OCCUPANT INJURY DATA	QUESTIONS (CONTINUED)
	·



OCCUPANT ASSESSMENT FORM

Form Approved O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM National Highway Traffic Safety CRASHWORTHINESS DATA SYSTEM Administration OCCUPANT'S SEATING 1. Primary Sampling Unit Number 10. Occupant's Seat Position DS1-93-AB-\$16 2. Case Number - Stratum Front Seat (11) Left side 3. Vehicle Number (12) Middle (13) Right side 4. Occupant Number (14) Other (specify): (15) On or in the lap of another occupant OCCUPANT'S CHARACTERISTICS Second Seat 5. Occupant's Age (21) Left side Code actual age at time of accident. (22) Middle (00) Less than one year old (specify by month): (23) Right side (24) Other (specify): (97) 97 years and older (25) On or in the lap of another occupant (99) Unknown Third Seat (31) Left side (32) Middle 6. Occupant's Sex (33) Right side (1) Male (34) Other (specify): (2) Female (35) On or in the lap of another occupant (9) Unknown Fourth Seat (41) Left side (42) Middle 7. Occupant's Height (43) Right side Code actual height to the nearest (44) Other (specify): centimeter. (45) On or in the lap of another occupant (999) Unknown $6 \int \text{inches } \times 2.54 = \sqrt{55} \text{ centimeters}$ (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown 8. Occupant's Weight Code actual weight to the nearest 11. Occupant's Posture kilogram. (0) Normal posture (999)Unknown Abnormal posture (1) Kneeling or standing on seat ____ pounds X .4536 = ____ kilograms (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window 9. Occupant's Role (5) Sitting on a console (1) Driver (6) Lying back in a reclined seat position (2) Passenger (7) Bracing with feet or hands on a surface in front (9) Unknown of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT			
12.	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	φ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13.	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	φ.	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown
14.	Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	<u>\$\phi\$</u>	
	(9) Unknown		

	RESTRAINT SYST	EM EVALUATION
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag
	(3) Lap belt(4) Lap and shoulder belt(5) Belt available—type unknown	Non-functional (2) Air bag disconnected (specify):
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(3) Air bag not reinstalled (9) Unknown
	(8) Other belt (specify):	22. Air Bag System Deployment (0) Not equipped/not available
	(9) Unknown	(1) Air bag deployed during accident (as a result of impact)
18.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed	(2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined
	(Ú1) Inoperative (specify):	(4) Nondeployed (5) Unknown if deployed
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	(6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat 	23. Are There Indications of Air Bag System Failure?
	(15) Belt used with child safety seat—type unknown(18) Other belt used with child safety seat (specify):	(0) Not equipped/not available (1) No (2) Yes (specify):
	(99) Unknown if belt used	(9) Unknown
19.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify):	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt
	(8) Other improper use of manual belt system (specify):	 (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify): AIC BAG
	(9) Unknown	(8) Restrained, type unknown (9) Police indicated "unknown"
20.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	
	(6) Broken retractor (7) Combination of above (specify):	
	(8) Other manual belt failure (specify):	

		HEAD RESTRAINT AN	D SI	EAT EVALUATION
25.	at Th (0) (1) (2) (3) (4) (5) (6) (8)	Restraint Type/Damage by Occupant his Occupant Position No head restraints Integral—no damage Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident Add-on—no damage Add-on—damaged during accident Other (specify):	27.	Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify):
	(9)	Unknown		(7) Combination of above (specify):
				(8) Other (specify):
26.	(00) (01) (02) (03) (04) (05) (06) (07) (08) (09)	Type (this Occupant Position) Occupant not seated or no seat Bucket Bucket with folding back Bench Bench with separate back cushions Bench with folding back(s) Split bench with separate back cushions Split bench with folding back(s) Pedestal (i.e., column supported) Other seat type (specify): Box mounted seat (i.e., van type) Unknown		(9) Unknown

	CHILD SA	FETY SEAT
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	31. Child Safety Seat Harness Usage 32. Child Safety Seat Shield Usage 33. Child Safety Seat Tether Usage
	(999) Unknown if child safety seat used	Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat
	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (13) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
	(22) Forward facing(28) Other orientation (specify):	
	(29) Unknown orientation	
	(99) Unknown if child safety seat used	

INJURY CONSEQUENCES	29 Working David Last 9 0
34. Injury Severity (Police Rating)	38. Working Days Lost Code the number of days
	 (up through 60) that the occupant lost from work due to the accident
(0) O - No injury (:) C - Possible injury	(00) No working days lost
(2) B - Nonincapacitating injury	(61) 61 days or more
(3) A - Incapacitating injury	(62) Fatally injured (97) Not working prior to accident
(4) K - Killed (5) U - Injury, severity unknown	(99) Unknown
(6) Died prior to accident	
(9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
	MARIARI FO OG TUROUGU AG ATT
35. Treatment - Mortality	VARIABLES 39 THROUGH 43 ARE - COMPLETED BY THE ZONE CENTER
(0) No treatment	
(1) Fatal (2) Fatal - ruled disease (specify):	100 71 17 1
	39. Time to Death Code number of hours from time of
	accident to time of death up through 24
Nonfatal (3) Hospitalization	hours. If time of death is greater than 24
(4) Transported and released	hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up
(5) Treatment at scene - nontransported	through 30 days = 60)
(6) Treatment later (8) Treatment - other (specify):	(00) Not fatal
	(96) Fatal - ruled disease (99) Unknown
(9) Unknown	(es, emmess.
	40. 1st Medically Reported Cause of Death $\cancel{\phi}$
36. Type Of Medical Facility (for Initial Treatment) 2	-
(0) Not treated at a medical facility (1) Trauma center	41. 2nd Medically Reported Cause of Death $\cancel{\Phi}$
(2) Hospital	42. 3rd Medically Reported Cause of Death ϕ
(3) Medical clinic	Code the Occupant Injury from line
(4) Physician's office (5) Treatment later at medical facility	number(s) for the medically reported
(8) Other (specify):	injury(s) which reportedly contributed to this occupant's death
(9) Unknown	(00) Not fatal or no additional causes
(3) GIRIOWII	(96) Mode of death given but specific injuries are not linked to cause
1 h	of death. (specify):
37. Hospital Stay ϕ (00) Not Hospitalized	
Code the number of days (up through 60)	(97) Other result (includes fatal ruled disease) (specify):
that the occupant stayed in hospital.	
(61) 61 days or more (99) Unknown	(99) Unknown
99. Case Occupant /	43. Number of Recorded Injuries for
-	This Occupant Code the actual number of
(0) Not the Case Occupant(1) This is the Case Occupant	injuries recorded for this occupant.
(2) This is the Case Occupant	(00) No recorded injuries (97) Injured, details unknown
in another case.	(99) Unknown if injured

AUTOMATIC BELT SYSTEM	48. Automatic (Passive) Belt Failure Modes				
44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	During Accident				
45. Automatic (Passive) Belt System Use	(9) Unknown				
(0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown				
46. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	STOP - VARIABLES 50 THROUGH 52 ARE COMPLETED BY THE ZONE CENTER				
47. Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	TRAUMA DATA 50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured 51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 52. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of theHCO ₃				
(96) ABGs reported , HCO3 unknown (97) Injured, details unknown (99) Unknown if injured ARE ALL APPLICABLE MEDICAL RECORDS INCLUDED NO [] YES [X] WITH INITIAL SUBMISSION?					
UPDATE CANDIDAT	E? NO [[/] YES []				

0

U.S. Department of Transportation National Highway Traffic Safety Administration

2. Case Number - Stratum

OCCUPANT INJURY FORM

Form Approved
O.M.B. No. 2127-0021

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

3-DR-A16

3. Vehicle Number

4. Occupant Number

\$ 1

INJURY DATA

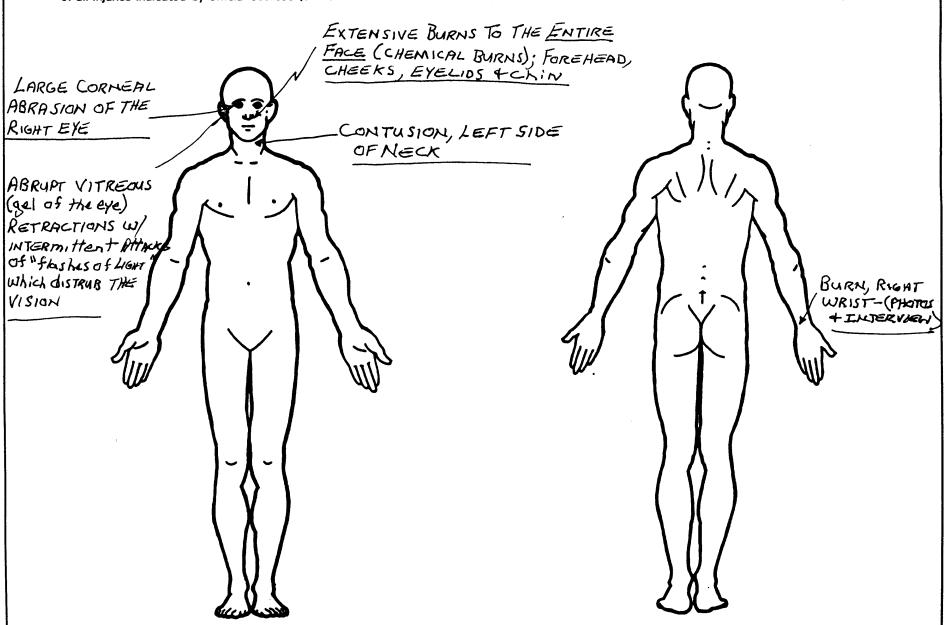
Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

				0.I.C.	-A.I.S				Injury		Occupant	
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
1et	ъ. <u>З</u>	6. <u>2</u>	7. <u>9</u>	8. <u>2 Ø</u>	s. <u>/ Ø</u>	10. <u>3</u>	11. <u>Ø</u>	12. <u>93</u>	13	14. <u>3</u>	15. <u>Ø</u>	941.39
2nd	16. <u>3.</u>	17. <u>A</u>	18. <u>4</u> 1	s. <u>Ø 6</u>	20. <u>Ø Z</u>	21	22	23. <u>Ø 6</u>	24	25. <u>2</u>	26. <u>Ø</u> Ø	918.1
3rd	27.4	28. <u>2</u>	29. <u>4</u> 3	o. <u>16</u>	31. <u>99</u>	32	33	34. <u>\$\P\6</u>	36	36. <u>2</u>	37. <u>Ø</u> Ø	918.9
4th	38. <u>4</u>	39. <u>3</u>	40. <u>9</u> 4	1. <u>¢4</u>	42. <u>Ø Z</u>	43. 🖊	44. <u>2</u>	45. <u>45</u>	48	47. /	48. <u>Ø Ø</u>	<u>920</u>
6th	49. 7	50. 7	51. <u>9</u> 5	2. <u>2 Ø</u>	53. <u>Ø 6</u>	64. <u>/</u>	66. <u> </u>	58. <u>93</u>	67. <u>/</u>	58. <u>3</u>	59. <u>\$\psi\phi</u>	944.67
6th	60	61	626	3	64	65	68	67	68	69	70	
7th	71	72	737	4	75	78	77	78	79	80	81	
8th	82	83	848	5.	86	87	88	89	90	91	92	
9th	93	94	959	6	97	98	99	100	101 1	02 1	03	
10th	104	106 1	0610	71	108	109	110	111	112 1	13 1	114	

		OLCALC						OCCUPANT INJURY DATA				
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Injury Source Confidence Level	Direct/ Indirect Injury	Occupant Area Intrusion Number	ICD-
11th		 .	. •••• '' 1.			-				_		
1 2th												
1 3 th												
l 4th		*****		CARLOS COMMUNE					_			
l 6th										_		
16th	******			*****								
17th												
18th	********									_		
19th							-					
20th	****	•===				-	- 1					
21 s t						******	******	·		_		
22nd									_			
23rd		•				-				***************************************		
24th							* * * * * * * * * * * * * * * * * * *			-		
26th												

OFFICIAL INJURY DATA - SOFT TISSUE INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



SOURCE OF INJURY DATA

OFFICIAL

- (1) Autopsy records with or without hospital/ medical records
- Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- Private physician, walk-in or emergency clinic

UNOFFICIAL

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7)Interviewee
- Other source (specify):
- (9) Police

INJURY SOURCE

FRONT

- (01) Windshield
- (02) Mirror
- (03) Sunvisor
- (04) Steering wheel rim
- (05) Steering wheel hub/spoke
- (06) Steering wheel (combination of codes 04 and 05)
- (07) Steering column, transmission selector lever, other attachment
- Add on equipment (e.g., CB, tape deck, air conditioner)
- (09) Left instrument panel and below
- (10) Center instrument panel and below
- (11) Right instrument panel and below
- (12) Glove compartment door
- (13) Knee bolster
- (14) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, mirror, or steering assembly (driver side only)
- (15) Windshield including one or more of the following: front header, A (A1/A2)-pillar, instrument panel, or mirror (passenger side only)
- (16) Driver side air bag compartment cover
- (17) Passenger side air bag compartment cover
- Windshield reinforced by exterior object (18)(specify):
- Other front object (specify): (19)

LEFT SIDE

- (20) Left side interior surface, excluding hardware or armrests
- (21) Left side hardware or armrest
- (22) Left A (A1/A2)-pillar
- (23) Left B-pillar
- (24) Other left pillar (specify):

- (25) Left side window glass or frame
- (26) Left side window glass including one or more of the following: frame, window sill. A (A1/A2)-pillar. B-pillar, or roof side rail.
- (27) Other left side object (specify):
- (28) Left side window sill

RIGHT SIDE

- (30) Right side interior surface, excluding hardware or armrests
- (31) Right side hardware or armrest
- (32) Right A (A1/A2)-pillar
- (33) Right B-pillar
- (34) Other right pillar (specify):
- (35) Right side window glass or frame
- Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or roof side rail.
- (37) Other right side object (specify):
- (38) Right side window sill

INTERIOR

- (40) Seat, back support
- (41) Belt restraint webbing/buckle
- (42) Belt restraint B-pillar or door frame attachment point
- (43) Other restraint system component (specify):
- (44) Head restraint system
- (45) Air bag (use codes "16" and "17" for injuries sustained from air bag compartment covers)
- (46) Other occupants (specify):
- (47) Interior loose objects
- (48) Child safety seat (specify):
- (49) Other interior object (specify):

ROOF

- (50) Front header
- (51) Rear header
- (52) Roof left side rail
- (53) Roof right side rail
- (54) Roof or convertible top

FLOOR

- (56) Floor (including toe pan)
- (57) Floor or console mounted transmission lever, including console
- (58) Parking brake handle
- (59) Foot controls including parking

REAR

(60) Backlight (rear window)

- (61) Backlight storage rack, door, etc.
- (62) Other rear object (specify):

EXTERIOR of OCCUPANT'S VEHICLE

- (65) Hood
- (66) Outside hardware (e.g., outside mirror, antenna)
- (67) Other exterior surface or tires (specify):
- (68) Unknown exterior objects

EXTERIOR OF OTHER MOTOR VEHICLE

- (70) Front bumper
- (71) Hood edge
- (72) Other front of vehicle (specify):
- (73) Hood
- (74) Hood omament
- (75) Windshield, roof rail, A-pillar
- (76) Side surface
- (77) Side mirrors
- (78) Other side protrusions (specify)
- (79) Rear surface
- (80) Undercarriage
- (81) Tires and wheels
- (82) Other exterior of other motor vehicle (specify):
- (83) Unknown exterior of other motor vehicle

OTHER VEHICLE OR OBJECT IN THE **ENVIRONMENT**

- (84) Ground
- (85) Other vehicle or object (specify)
- (86) Unknown vehicle or object

NONCONTACT INJURY

- (90) Fire in vehicle
- (91) Flying glass
- (92) Other noncontact injury source (specify):
- (93) Air bag exhaust gases
- (97) Injured, unknown source

INJURY SOURCE CONFIDENCE LEVEL

- (1) Certain
- Probable (2)
- (3) Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- Direct contact injury (1)
- Indirect contact injury (2)
- Noncontact injury (3)
- Injured, unknown source

OCCUPANT INJURY CLASSIFICATION

Body Region

- Head
- (2) Face (3) Neck
- Thorax (5) Abdomen
- (6) Spine
- Upper Extremity
- (8) **Lower Extremity** (9) Unspecified
- Whole Area
- (2) Vessels
- (3) Nerves Organs (includes muscles/ (4) ligaments)

Type of Anatomic Structure

- Skeletal (includes joints)
- (6) Head - LOC
- (9) Skin

- Specific Anatomic Structure
- Whole Area (02) Skin Abrasion (04) Skin Contusion
- (06) Skin Laceration (08) Skin Avulsion
- (10) Amputation
- Burn
- (30) Crush (40)
- Degloving Injury - NFS

(02) Length of LOC

(10) Concussion

Trauma, other than mechanical

(04, 06, 08) Level of Consciousness

- (02) Cervical (04) Thoracic
- (06) Lumbar Vessels, Nerves, Organs, Bones, Joints are assigned consecutive

two digit numbers beginning with 02

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

- Minor injury
- Moderate injury
- Serious injury Severe injury (4)
- Critical injury
- Maximum (untreatable) Injured, unknown severity (7)

Aspect

- Right Left (2)
- Bilateral Central
- (6) Anterior (6) **Posterior**
- (7) Superior (8) Inferior
- Unknown
- Whole region

OFFICIAL INJURY DATA - SKELETAL INJURIES

BEST AVAILABLE COPY

Restrained?

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

Blood Alcohol Level (mg/dl)

BAL =

Glasgow Coma Scale Score

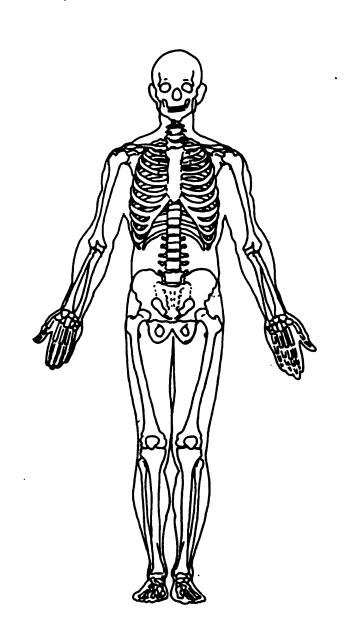
GCSS = _

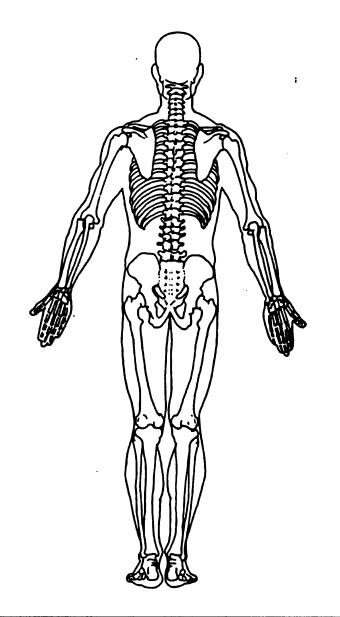
Units of Blood Given

Units = __

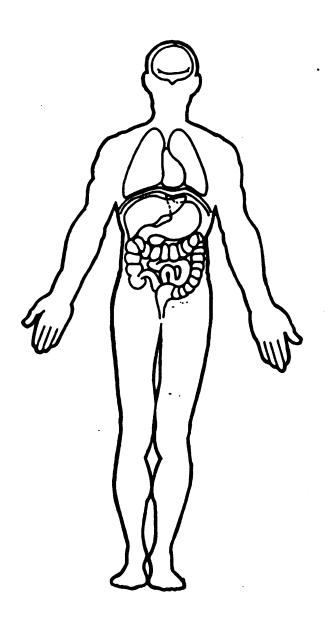
Arterial Blood Gases

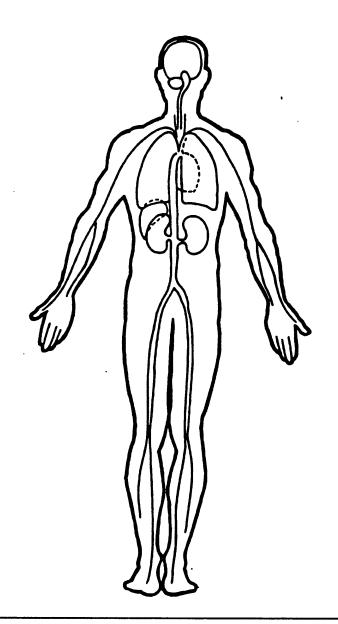
HCO₃





Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





Form Approved

O.M.B. No. 2127-0021

OCCUPANT ASSESSMENT FORM U.S. Department of Transportation NATIONAL ACCIDENT SAMPLING SYSTEM National Highway Traffic Safety CRASHWORTHINESS DATA SYSTEM Administration OCCUPANT'S SEATING 1. Primary Sampling Unit Number 10. Occupant's Seat Position 2. Case Number - Stratum DS1-93-AB-016 Front Seat (11) Left side 3. Vehicle Number (12) Middle (13) Right side 4. Occupant Number (14) Other (specify):_ OCCUPANT'S CHARACTERISTICS (15) On or in the lap of another occupant Second Seat 5. Occupant's Age (21) Left side Code actual age at time of accident. (22) Middle (00) Less than one year old (specify by month): (23) Right side (24) Other (specify): (97) 97 years and older (25) On or in the lap of another occupant (99) Unknown Third Seat (31) Left side (32) Middle 6. Occupant's Sex (33) Right side (1) Male (34) Other (specify): (2) Female (35) On or in the lap of another occupant (9) Unknown Fourth Seat (41) Left side (42) Middle 7. Occupant's Height (43) Right side Code actual height to the nearest (44) Other (specify): centimeter. (45) On or in the lap of another occupant (999) Unknown 64 inches $\times 2.54 = /63$ centimeters (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown

ス

053 8. Occupant's Weight Code actual weight to the nearest kilogram. (999)Unknown

1/1 pounds X .4536 = 0.53 kilograms

9. Occupant's Role (1) Driver

(2) Passenger

(9) Unknown

11. Occupant's Posture

(0) Normal posture

Abnormal posture

(1) Kneeling or standing on seat

(2) Lying on or across seat

(3) Kneeling, standing or sitting in front of seat

(4) Sitting sideways or turned to talk with another occupant or to look out a rear window

(5) Sitting on a console

(6) Lying back in a reclined seat position

(7) Bracing with feet or hands on a surface in front of seat

(8) Other abnormal posture (specify):

(9) Unknown

HS Form 433A (1/93)

	EJECTION/ENTRAPMENT						
12.	Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	φ	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown				
13.	Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	φ.	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown				
14.	Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	<u></u>					

	RESTRAINT SYS	TEM EVALUATION
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag Non-functional
	(5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
18	(8) Other belt (specify): (9) Unknown Manual (Active) Belt System Use	22. Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just
	(00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 	23. Are There Indications of Air Bag System Failure? (O) Not equipped/not available (1) No (2) Yes (specify):
19.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
	 Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): 	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat
	(9) Unknown	(7) Other or automatic restraint (specify):
20.	Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):	
	(9) Unknown	

HEAD RESTRAINT	AND SEAT EVALUATION
Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): (10) Box mounted seat (i.e., van type) (99) Unknown	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify):

CHILD SAFETY SEAT ΦΦ ΦΦ ΦΦ 31. Child Safety Seat Harness Usage 28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing 32. Child Safety Seat Shield Usage (950) Built-in child safety seat (997) Other make/model (specify): 33. Child Safety Seat Tether Usage (998) Unknown make/model (999) Unknown if child safety seat used Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat 29. Type of Child Safety Seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether (0) No child safety seat added, not used (1) Infant seat (02) After market harness/shield/tether used (2) Toddler seat (03) Child safety seat used, but no after market (3) Convertible seat harness/shield/tether added (4) Booster seat (09) Unknown if harness/shield/tether (7) Other type child safety seat (specify): added or used (8) Unknown child safety seat type Designed With Harness/Shield/Tether (9) Unknown if child safety seat used (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used 30. Child Safety Seat Orientation Unknown If Designed With Harness/Shield/Tether (00) No child safety seat (21) Harness/shield/tether not used (22) Harness/shield/tether used Designed for Rear Facing for This Age/Weight (29) Unknown if harness/shield/tether used (01) Rear facing (02) Forward facing (99) Unknown if child safety seat used (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

INJURY CONSEQUENCES	38. Working Days Lost
34. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown STOP - GO TO VARIABLE 44 ON PAGE 7
35. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (8) Treatment - other (specify): (9) Unknown	VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER 39. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
36. Type Of Medical Facility (for Initial Treatment) 9 (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	40. 1st Medically Reported Cause of Death 41. 2nd Medically Reported Cause of Death 42. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause
37. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	of death. (specify): (97) Other result (includes fatal ruled disease) (specify): (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

	AUTOMATIC BELT SYSTEM		48 4	Automatic (Passive) Belt Failure Modes
44.	Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	φ_		During Accident O) Not equipped/not available/not in use 1) No automatic belt failure(s) 2) Torn webbing (stretched webbing not included) 3) Broken buckle or latchplate 4) Upper anchorage separated 5) Other anchorage separated (specify):
	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown		()	6) Broken retractor 7) Combination of above (specify): 8) Other automatic belt failure (specify): 9) Unknown
45.	Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or	<u>Ø</u> _	1,	o) Unknown
	rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown		() () ()	Seat Orientation (this Occupant Position) O) Occupant not seated or no seat 1) Forward facing seat 2) Rear facing seat 3) Side facing seat (inward) 4) Side facing seat (outward) 8) Other (specify):
	(9) Unknown		1	9) Unknown
46.	Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown	Φ	STC CON	P - VARIABLES 50 THROUGH 52 ARE APLETED BY THE ZONE CENTER
		,		TRAUMA DATA
47.	Proper Use of Automatic (Passive Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm	<u>\$</u>	()	Glasgow Coma Scale (GCS) Score at Medical Facility) OO) Not injured O1) Injured - not treated at medical facility O2) No GCS Score at medical facility O3-15) Code the actual value of the initial GCS Score recorded at medical facility. 97) Injured, details unknown
	(4) Automatic shoulder belt worn behind back(5) Automatic belt worn around more than		(99) Unknown if injured
	one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):		(Vas the Occupant Given Blood? 1) No - blood not given 2) Yes - blood given (specify units): 9) Unknown if blood given
	(8) Other improper use of automatic belt system (specify):(9) Unknown	em	(1)	Arterial Blood Gases (ABG) – HCO ₃ <u>9</u> <u>7</u> 00) Not injured 01) Injured, ABGs not measured or reported 02-50) Code the actual value of theHCO ₃ 96) ABGs reported , HCO ₃ unknown 97) Injured, details unknown 99) Unknown if injured
	ARE ALL APPLICABLE MEDICAL R WITH INITIAL SUBMISSION?	ECOF	RDS II	NCLUDED NO[] YES[]
	UPDATE CANDIDA	ATE?		NO [/] YES []

National Highway Traffic Safety

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM
CRASHWORTHINESS DATA SYSTEM

Administration	CRASHWOKI HINESS DATA STSTEM
1. Primary Sampling Unit Number	11. Police Reported Alcohol Presence (0) No alcohol present (1) Yes (alcohol present)
2. Case Number - Stratum <u>DS1 - 93 - A8 - \$\phi/6</u>	(7) Not reported (8) No driver present
3. Vehicle Number ϕ a	(9) Unknown
4. Vehicle Model Year Code the last two digits of the model year (99) Unknown 5. Vehicle Make (specify): Buick Applicable codes are found in your NASS Data Collection, Coding and Edition Manual.	Note: See variables 37 through 55 (Page 4) for information on Other Drugs 12. Alcohol Test Result For Driver Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source: PAR
(99) Unknown 6. Vehicle Model (specify):	ACCIDENT RELATED
6. Vehicle Model (specify): REGAL LIMITED Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	13. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kph (999) Unknown
7. Body Type Note: Applicable codes may be found on the back of this page.	45 mph X 1.6093 =kph 14. Attempted Avoidance Maneuver (00) No impact (01) No avoidance actions
8. Vehicle Identification Number	(02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes
Left justify; Slash zeros and letter Z (0 and Z) No VIN—Code all zeros Unknown—Code all nine's	(06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating
OFFICIAL RECORDS	(11) Accelerating and steering left (12) Accelerating and steering right
9. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	(97) No driver present (98) Other action (specify): (99) Unknown
10. Police Reported Travel Speed 9 9 Code to the nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	15. Accident Type Applicable codes may be found on the back of page two of this field form (00) No impact Code the number of the diagram that best describes the accident circumstance (98) Other accident type (specify):
mph X 1.6093 = kph	(99) Unknown
**** CVID TO MADIADIE CV27 IE C	VOZ DOES NOT EQUAL 01-49 ****

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (O2) 2-door sedan, hardtop, coupe
- (O3) 3-door/2-door hatchback
- (O4) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Landcruiser, Rover, Scout)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Chrysler Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Dodge/Plymouth Vista, Aerostar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Courier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500,)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Cab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	OCCUPANT RELATED	24	Rollover ϕ
	Driver Presence in Vehicle (0) Driver not present (1) Driver present (9) Unknown Number of Occupants This Vehicle	24.	(0) No rollover (no overturning) Rollover (primarily about the longitudinal axis) (1) Rollover, 1 quarter turn only (2) Rollover, 2 quarter turns (3) Rollover, 3 quarter turns
	(00-96) Code actual number of occupants for this vehicle (97) 97 or more (99) Unknown		 (4) Rollover, 4 or more quarter turns (specify): (5) Rolloverend-over-end (i.e., primarily about the lateral axis) (9) Rollover (overturn), details unknown
18.	Number of Occupant Forms Submitted 4		
	VEHICLE WEIGHT ITEMS		OVERRIDE/UNDERRIDE (THIS VEHICLE)
19.	Vehicle Curb Weight		Front Override/Underride (this Vehicle)
	10 kilograms. (045) Less than 450 kilograms	26.	Rear Override/Underride (this Vehicle)
	(610) 6,100 kilograms or more (999) Unknown		(0) No override/underride, or not an end-to-end impact
:	43,238 lbs X .4536 = $1,472$ kgs	:	Override (see specific CDC)
	Source:		(1) 1st CDC (2) 2nd CDC
20	Vehicle Cargo Weight 9, 9 9 0		(3) Other not automated CDC (specify):
	Code weight to nearest		
	(000) Less than 5 kilograms (450) 4,500 kilograms or more		Underride (see specific CDC) (4) 1st CDC
	(999) Unknown		(5) 2nd CDC
	,lbs X .4536 =,kgs		(6) Other not automated CDC (specify):
	RECONSTRUCTION DATA		(7) Medium/heavy truck or bus override
21.	Towed Trailing Unit (0) No towed unit		(9) Unknown
	(1) Yes—towed trailing unit (9) Unknown		HEADING ANGLE AT IMPACT FOR
	(5) GIRIOWII		HIGHEST DELTA V
22.	Documentation of Trajectory Data for This Vehicle		Values: (000)-(359) Code actual value (997) Noncollision
	(0) No		(998) Impact with object
	(1) Yes		(999) Unknown
23.	Post Collision Condition of Tree or Pole	27.	Heading Angle For This Vehicle 9999
	 (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify): 	28.	Heading Angle For Other Vehicle 9999
	(9) Unknown		

1	Configur-		ACCIDENT TYPES	(Includes Intent)		
	A Right Roadside	01	82	AVOID COLLISION	04 SPECIFICS	06 8PECIFICS
ايا	Departure	DRIVE OFF	TRACTION LOSS	WITH VEH., PED., ANIM.	OTHER	UNKNOWN
Single Driver	B Left	00		0 :	00	10
Single	Roadside Departure	DRIVE OFF	CONTROL/ TRACTION LOSS	AVOID COLLISION WITH VEH., PED., ANIM.	SPECIFICS OTHER	SPECIFICS UNKNOWN
	C Forward		12 13	14-	15	16
	Impact	PARKED VEH.	STA. OSJECT PEDES ANIMA	TRIAN/ END LL DEPARTURE	SPECIFICS OTHER	SPECIFICS UNKNOWN
4	D Kear-End	20	21 24	25 29 30 30 25 37 38 29 27 29 27	(EACH • 32)	(EACH • 33)
		STOPPED 21. 22. 23	SLOWER 25. 26. 27	DECEL. 31 28, 39, 31	SPECIFICS OTHER	SPECIFICS UNKNOWN
Sane Trafficway Sank Direction	E Forward Impact	99411195	-	OND COLLISION AVOID COLL WITH OBJECT	41 ISION SPECIFIC	42) (EACH + 43) ES SPECIFICS UNKNOWN
=	F Sideswipe Angle	44 -45	46	(EACH · 48) SPECIFICS OTHER		H • 49) Fics UNKNOWN
Si	G Head-On	50 51 LATERAL MOVE	EACH • 82) SPECIFICS OTHER	(EACH + 53) SPECIFICS UNKNO	WN	
Same Trafficway Oppiwite Direction	H Forward Impact	54 55 CONTROL/ TRACTION LOSS		VOID COLLISION AVOID COLL WITH OBJECT	61 JBION SPECIFIC	• 62)(EACH • 63 CS SPECIFICS UNKNOWN
8 ==	l. Sideswipe! Angle	LATERAL MOVE	E (EACH • 66) SPECIFICS OTHER	(EACH + 67) SPECIFICS UNKNO		
Change Trafficway Vehick Turning	J. Turn Across Path	INITIAL OPPOSIT	71 70	73-72 IRECTIONS	EPECIFIC OTHER	74) (EACH + 75) S SPECIFICS UNKNOWN
IV. Change Traffich Vehicle Turning	K. Turn Into Path	TURN INTO SAME	78 /E	81 ES	62 \	BA) (EACH • 86 BPECIPICS UNKNOWN
V Intersection of Paths (Vehicle Damage)	L. Straught Paths	1 7	•	(EACH - 90) SPECIFICS OTHER	(EACH -	91) S UNKNOWN
VI Miscel- lancous	M. Backing Etc.	1 2 2	ES OTHER VEH. OR OBJECT	96 Other Acci 99 Unknown 90 No Impect	Accident Type	

29. Basis for Total Delta V (highest) Delta V Calculated (1) CRASH program—damage only routine	Secondary Highest 32. Lateral Component of Delta V 9 9
(2) CRASH program—damage and trajectory routine(3) Missing vehicle algorithm	Nearest kph (NOTE:000 means greater than -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above
Delta V Not Calculated (4) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.	(_999) Unknown 33. Energy Absorption
(5) All vehicles within scope (CDC applicable) of CRASH program but one of the collision conditions is beyond the scope of the CRASH program or other acceptable reconstruction technique, regardless of adequacy of damage data.	Nearest 100 joules (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown
(6) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available.	34. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable
COMPUTER GENERATED DELTA V Secondary Highest 30. Total Delta V 9 9 9	 (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
Nearest kph (NOTE: 000 means less than 0.5 kph) (160) 159.5 kph and above (999) Unknown	35. Type of Vehicle Inspection (0) No inspection (1) Complete inspection (2) Partial inspection (specify):
31. Longitudinal Component of + - 9 9 9 — Nearest kph (NOTE: _000 means greater than -0.5 kph and less than +0.5 kph) (±160) ±159.5 kph and above (_999) Unknown	36. Is this an AOPS Vehicle? (0) No (1) Yes - researcher determined (2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive) belts
IS OLDMISS APPLICABLE FOR T	HIS VEHICLE? [] YES [X] NO
IF YES: IS A COMPLETED OLDMISS PROGRA	1

Tradella Accident Camping Cystem Craemos Date	
37. Police Reported Other Drug Presence (0) No other drugs present (1) Yes (other drug present)	DRUG EVALUATION CLASSIFICATION OTHER DRUGS TEST RESULTS FOR DRIVER
(1) Yes (other drug present) (7) Not reported (8) No driver present (9) Unknown	DEC Specimen Test Test Results Results
38. Police Reported Drug Evaluation Classification (DEC) Test For Driver (0) No DEC process available or given (1) DEC process given, results known (2) DEC process given, results unknown (3) DEC process available, unknown if given (8) No driver present	Narcotic Drug Depressant Drug Ad. 41. 43. 43. 45. 44. 45. 45. 46. 47. 47. 47. 47. 47. 47. 47. 47. 47. 47
39. Other Drug Specimen Test Type For Driver (0) No specimen test given (1) Blood test (2) Urine test (3) Other specimen tests (specify): (7) Unspecified specimen test (8) No driver present (9) Unknown if specimen test given	Codes For DEC Test Results (0) No DEC test given (1) Passed DEC test (2) Failed DEC test (3) DEC test given—results unknown (8) No driver present (9) Unknown if DEC test given Codes for Specimen Test Results (0) No specimen test given (1) Drug not found in specimen (2) Drug found in specimen (7) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given

OTHER DATA	61. Rollover Initiation Object Contacted ϕ
56. Driver's Zip Code	y y .
(00000) Driver not present (00001) Driver not a resident of U.S. or territor Code actual 5-digit zip code (99999) Unknown	ies 62. Location on Vehicle Where Initial Principal Tripping Force Is Applied (0) No rollover (1) Wheels/tires (2) Side plane
 (0) Driver not present (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (8) Other (specify): 	(3) End plane (4) Undercarriage (5) Other location on vehicle (specify): (8) Non-contact rollover forces (specify): (9) Unknown 63. Direction of Initial Roll
 (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus (4) Military (5) Police (6) Ambulance 	(0) No rollover (1) Roll right - primarily about the longitudinal axis (2) Roll left - primarily about the longitudinal axis (5) End-over-end (i.e., primarily about the lateral axis) (9) Unknown roll direction
(7) Fire truck or car (8) Other (specify):	PRECRASH DATA
(9) Unknown	64. Pre-Event Movement (Prior to Recognition of Critical Event)
ROLLOVER DATA If GV07 (Body Type) ≠ 1-49, leave GV59-GV63 blant If GV24 (Rollover) = 0, then GV59-GV63 must equal If GV24 = 9, then GV59-GV63 must equal 9.	(01) Going straight (02) Slowing or stopping in traffic lane (03) Starting in traffic lane (04) Stopped in traffic lane (05) Passing or overtaking another vehicle
59. Rollover Initiation Type (0) No rollover (1) Trip-over (2) Flip-over (3) Turn-over (4) Climb-over (5) Fall-over (6) Bounce-over (7) Collision with another vehicle (8) Other rollover initiation type specify):	(06) Disabled or parked in travel lane (07) Leaving a parking position (08) Entering a parking position (09) Turning right (10) Turning left (11) Making a U-turn (12) Backing up (other than for parking position) (13) Negotiating a curve (14) Changing lanes (15) Merging (16) Successful avoidance maneuver to a previous critical event (97) Other (specify):
60. Location of Rollover Initiation	(98) No driver present (99) Unknown
 (0) No rollover (1) On roadway (2) On shoulder—paved (3) On shoulder—unpaved (4) On roadside or divided trafficway median (9) Unknown 	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number

Noncollision

- (31) Turn-over fall-over
- (33) Jackknife

Collision With Fixed Object

- (41) Tree (\leq 10 cm in diameter)
- (42) Tree (> 10 cm in diameter)
- (43) Shrubbery or bush
- (44) Embankment
- (45) Breakaway pole or post (any diameter)

Nonbreakaway Pole or Post

- (50) Pole or post (≤ 10 cm in diameter)
- (51) Pole or post (> 10 cm but ≤ 30 cm in diameter)
- (52) Pole or post (> 30 cm in diameter)
- (53) Pole or post (diameter unknown)
- (54) Concrete traffic barrier
- (55) Impact attenuator
- (56) Other traffic barrier (includes guardrail) (specify):

- (57) Fence
- (58) Wall
- (59) Building
- (60) Ditch or culvert
- (61) Ground
- (62) Fire hydrant
- (63) Curb
- (64) Bridge
- (68) Other fixed object (specify):
- (69) Unknown fixed object

Collision with Nonfixed Object

- (71) Motor vehicle not in-transport
- (76) Animal
- (77) Train
- (78) Trailer, disconnected in transport
- (88) Other nonfixed object (specify):
- (89) Unknown nonfixed object
- (98) Other event (specify):
- (99) Unknown event or object

PRECRASH DATA (Continued)

65. Critical Precrash Event

52

This Vehicle Loss of Control Due To:

- (01) Blow out or flat tire
- (02) Stalled engine
- (03) Disabling vehicle failure (e.g., wheel fell off) (specify):
- (04) Non-disabling vehicle problem (e.g., hood flew up) (specify):
- (05) Poor road conditions (puddle, pot hole, ice, etc.) (specify):
- (06) Traveling too fast for conditions
- (08) Other cause of control loss (specify):
- (09) Unknown cause of control loss

This Vehicle Traveling

- (10) Over the lane line on left side of travel lane
- (11) Over the lane line on right side of travel lane
- (12) Off the edge of the road on the left side
- (13) Off the edge of the road on the right side
- (14) End departure
- (15) Turning left at intersection
- (16) Turning right at intersection
- (17) Crossing over (passing through) intersection
- (19) Unknown travel direction

Other Motor Vehicle In Lane

- (50) Stopped
- (51) Traveling in same direction with lower speed (i.e., lower steady speed or decelerating)
- (52) Traveling in same direction with higher speed
- (53) Traveling in opposite direction
- (54) In crossover
- (55) Backing
- (59) Unknown travel direction of other motor vehicle in lane

Other Motor Vehicle Encroaching Into Lane

- (60) From adjacent lane (same direction)—over left lane line
- (61) From adjacent lane (same direction)—over right lane line
- (62) From opposite direction—over left lane line
- (63) From opposite direction—over right lane line
- (64) From parking lane
- (65) From crossing street, turning into same direction
- (66) From crossing street, across path
- (67) From crossing street, turning into opposite direction
- (68) From crossing street, intended path not known
- (70) From driveway, turning into same direction
- (71) From driveway, across path
- (72) From driveway, turning into opposite direction
- (73) From driveway, intended path not known
- (74) From entrance to limited access highway
- (78) Encroachment by other vehicle—details unknown

- Pedestrian or Pedalcyclist, or Other Nonmotorist
- (80) Pedestrian in roadway
- (81) Pedestrian approaching roadway
- (82) Pedestrian unknown location
- (83) Pedalcyclist or other nonmotorist in roadway (specify):
- (84) Pedalcyclist or other nonmotorist approaching roadway (specify):
- (85) Pedalcyclist or other nonmotorist—unknown location (specify):

Object or Animal

- (87) Animal in roadway
- (88) Animal approaching roadway
- (89) Animal—unknown location
- (90) Object in roadway
- (91) Object approaching roadway
- (92) Object-unknown location
- (98) Other critical precrash event (specify):
- (99) Unknown

For Corrective Actions Attempted see variable GV14 (Attemped Avoidance Manuever)

66. Precrash Stability After Avoidance Maneuver



- (0) No avoidance maneuver
- (1) Tracking
- (2) Skidding longitudinally—rotation less than 30 degrees
- (3) Skidding laterally-clockwise rotation
- (4) Skidding laterally counterclockwise rotation
- (7) Other vehicle loss-of-control (specify):
- (8) No driver present
- (9) Precrash stability unknown

67. Precrash Directional Consequences of Avoidance Maneuver (Corrective Action)



- (0) No avoidance maneuver
 - (1) Vehicle stayed in travel lane where avoidance maneuver was initiated
- (2) Vehicle stayed on roadway but left travel lane where avoidance maneuver was initiated
- (3) Vehicle stayed on roadway, not known if left travel lane where avoidance maneuver was initiated
- (4) Vehicle departed roadway
- (5) Avoidance maneuver initiated off roadway
- (8) No driver present
- (9) Directional consequences unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV35=0), ***
DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS.

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***
THE EXTERIOR VEHICLE, INTERIOR VEHICLE,
OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

OCCUPANT ASSESSMENT FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration		CRASHWORTHINESS DATA SYSTEM
		OCCUPANT'S SEATING
1. Primary Sampling Unit Number		10. Occupant's Seat Position
2. Case Number - Stratum <u>DS/ -</u>	<u>-93-AB-Ø/6</u>	Front Seat
3. Vehicle Number	1 2	(11) Left side (12) Middle
4. Occupant Number	<u>ø</u> /_	(13) Right side (14) Other (specify):
OCCUPANT'S CHARACTERIS	STICS	(14) Other (specify): (15) On or in the lap of another occupant
OCCOLANT 5 CHANACTER		
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify to the second sec	<u>4</u> <u>7</u> by month):	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female (9) Unknown	<u>3</u>	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 =centimet	9 9 9 ers	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknownpounds X .4536 = kil	9 9 9 ograms	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat
9. Occupant's Role (1) Driver (2) Passenger (9) Unknown		 (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	Ø	15. Medium Status (Immediately Prior To Impact)	
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<u></u> \$	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown	
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	<u>φ</u>		

RESTRAINT SYST	TEM EVALUATION
17. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown 18. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat	21. Air Bag System Availability/Function (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 22. Air Bag System Deployment (0) Not equipped/not available (1) Air bag deployed during accident (as a result of impact) (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown 23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify):
(specify): (99) Unknown if belt used 19. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	(9) Unknown Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
 Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown 	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Other or automatic restraint (specify): (8) Restrained, type unknown (9) Police indicated "unknown"
20. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify):	
(9) Unknown	

HEAD RESTRAINT AND	SEAT EVALUATION
25. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify): (7) Combination of above (specify):
26. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): (10) Box mounted seat (i.e., van type) (99) Unknown	(8) Other (specify): (9) Unknown

28. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 29. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 30. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

CHILD SAFETY SEAT \$ \$ \$ \$ \$ \$ \$ 31. Child Safety Seat Harness Usage 32. Child Safety Seat Shield Usage 33. Child Safety Seat Tether Usage Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used

(29) Unknown if harness/shield/tether used

(99) Unknown if child safety seat used

latio	nal Accident Sampling System-Crashworthiness Data	System: Occupant Assessment Form 1990
	INJURY CONSEQUENCES	38. Working Days LostCode the number of days
34.	Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown	(up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
25	(6) Died prior to accident (9) Unknown Treatment - Mortality	STOP - GO TO VARIABLE 44 ON PAGE 7 VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER
30.	(0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	39. Time to Death Code number of hours from time of
	Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (8) Treatment - other (specify):	accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
36.	Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):	40. 1st Medically Reported Cause of Death 41. 2nd Medically Reported Cause of Death 42. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes
37.	Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	 (96) Mode of death given but specific injuries are not linked to cause of death. (specify): (97) Other result (includes fatal ruled disease) (specify): (99) Unknown
99	Case Occupant (0) Not Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

National Accident Sampling System-Clashworthiness Set	
AUTOMATIC BELT SYSTEM 44. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	48. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify): (9) Unknown
45. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown	49. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown
(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 47. Proper Use of Automatic (Passive)	Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed
Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown	or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):
ARE ALL APPLICABLE MEDICAL RECO	ORDS INCLUDED NO [/] YES []
UPDATE CANDIDATE	? NO [V] YES []

OTOR MARIABLES ES TURBUCU ES ADE	BELT USE DETERMINATION
TRAUMA DATA 50. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown	53. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): V/N (9) Unknown if belt used
(99) Unknown if injured	
51. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given	
52. Arterial Blood Gases (ABG) – HCO ₃	

OCCUPANT ASSESSMENT FORM NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration	CRASHWORTHINESS DATA SYSTEM
	OCCUPANT'S SEATING
1. Primary Sampling Unit Number	10. Occupant's Seat Position
2. Case Number - Stratum DSI -93-98-4/6	Front Seat
3. Vehicle Number	(11) Left side (12) Middle
1 7	(13) Right side
4. Occupant Number	(14) Other (specify):
OCCUPANT'S CHARACTERISTICS	(15) On or in the lap of another occupant
5. Occupant's Age	Second Seat
Code actual age at time of accident.	(21) Left side
(00) Less than one year old (specify by month):	(22) Middle (23) Right side
(07) 07 years and older	(24) Other (specify):
(97) 97 years and older (99) Unknown	(25) On or in the lap of another occupant
	Third Seat
	(31) Left side
6. Occupant's Sex	(32) Middle
(1) Male	(33) Right side
(2) Female	(34) Other (specify):
(9) Unknown	(35) On or in the lap of another occupant
	Fourth Seat
	(41) Left side
7. Occupant's Height	(42) Middle
Code actual height to the nearest	(43) Right side
centimeter.	(44) Other (specify):(45) On or in the lap of another occupant
(999) Unknown	
inches X 2.54 = centimeters	(97) In or on unenclosed area
	(98) Other seat (specify):(99) Unknown
	(33) Olikilowii
8. Occupant's Weight 9 9	
Code actual weight to the nearest	11. Occupant's Posture
kilogram.	(0) Normal posture
(999) Unknown	
pounds X .4536 = kilograms	Abnormal posture (1) Kneeling or standing on seat
	1 (2) Lying on or across seat
	(3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another
9 Occupant's Role	occupant or to look out a rear window
9. Occupant's Role (1) Driver	(5) Sitting on a console
(2) Passenger	(6) Lying back in a reclined seat position(7) Bracing with feet or hands on a surface in front
(9) Unknown	l of seat
	(8) Other abnormal posture (specify):
	(9) Unknown

 EJECTION/ENTRAPMENT			
Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	B	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	
Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<u>\$</u>	16. Entrapment (NOTE: Entrapped means that part of the person was in the vehicle and mechanically restrained; jammed doors and immobilizing injuries by themselves are not sufficient to constitute entrapment.) (0) Not entrapped (1) Entrapped (9) Unknown	
Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	<u>\$</u>		
(9) Unknown		·	

	RESTRAINT SYST	EM EVALUATION
17.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	21. Air Bag System Availability/Function (O) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify):
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed)	(3) Air bag not reinstalled (9) Unknown
	(8) Other belt (specify):	22. Air Bag System Deployment (0) Not equipped/not available
	(9) Unknown	 Air bag deployed during accident (as a result of impact)
18	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	 (2) Air bag deployed inadvertently just prior to accident (3) Air bag deployed, accident sequence undetermined (4) Nondeployed
	(02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify):	 (5) Unknown if deployed (6) Air bag deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (9) Unknown
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 	23. Are There Indications of Air Bag System Failure? (0) Not equipped/not available (1) No (2) Yes (specify):
	а	(9) Unknown
19	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	Note: See Variables 44 through 48 (Page 5) for Information on Automatic Belts
	 Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): 	24. Police Reported Restraint Use (0) None used (1) Police did not indicate restraint use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified
	(8) Other improper use of manual belt system (specify):	(6) Child safety seat (7) Other or automatic restraint (specify):
	(9) Unknown	(8) Restrained, type unknown(9) Police indicated "unknown"
20	During Accident (0) No manual belt used (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	
	(6) Broken retractor(7) Combination of above (specify):	
	(8) Other manual belt failure (specify):	
	(9) Unknown	

tional Accident Sampling System-Crashworthines	
HEAD RESTRAIN	INT AND SEAT EVALUATION
5. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):	27. Seat Performance (this Occupant Position) (0) Occupant not seated or no seat (1) No seat performance failure(s) (2) Seat adjusters failed (3) Seat back folding locks or "seat back" failed (specify): (4) Seat track/anchors failed (5) Deformed by impact of occupant (6) Deformed by passenger compartment intrusion (specify): (7) Combination of above (specify):
6. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Other seat type (specify): (10) Box mounted seat (i.e., van type) (99) Unknown	(9) Unknown

National Accident Sampling System-Crashworthiness Data System: Occupant Assessment Form

	CHILD SA	FETY SEAT	l
28.	Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS	31. Child Safety Seat Harness Usage	
	Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify):	32. Child Safety Seat Shield Usage 33. Child Safety Seat Tether Usage	
	(998) Unknown make/model (999) Unknown if child safety seat used	Note: Options below applicable to Variables OA31-OA33. (00) No child safety seat	
29.	Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used	Not Designed With Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used	
30.	Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used	(12) Harness/shield/tether used (19) Unknown if harness/shield/tether used (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used	

1000	Hai Accident Gampining Cyclem Statement	
	INJURY CONSEQUENCES	38. Working Days Lost <u>9</u> 7
34.	Injury Severity (Police Rating)	Code the number of days (up through 60) that the occupant lost from work due to the accident
	 (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown 	(00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
	(6) Died prior to accident (9) Unknown	STOP - GO TO VARIABLE 44 ON PAGE 7
35.	Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	VARIABLES 39 THROUGH 43 ARE COMPLETED BY THE ZONE CENTER 39. Time to Death
	Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (8) Treatment - other (specify):	Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown
36.	Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown	40. 1st Medically Reported Cause of Death 41. 2nd Medically Reported Cause of Death 42. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause
37.	Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown	of death. (specify): (97) Other result (includes fatal ruled disease) (specify): (99) Unknown
99.	Case Occupant (0) Not Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case	43. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured

CRASHPC PROGRAM SUMMARY

BEST AVAILABLE COPY

(All Measurements In Metric)

Seminary Seminary	iational Highway Traffic S Idministration	iafety	(All Measure	ements in Metric)		ENT SAMPLING SYSTEM THINESS DATA SYSTEM
Care No Stream Summing Unit Care No Stream No Stream CRASHPC Vehicle Identification Vehicle I	Identifying Title					
Care No Stream Summing Unit Care No Stream No Stream CRASHPC Vehicle Identification Vehicle I	- · · · - 	DS1-93-G	1B-016	<u> </u>		
Vehicle 1 1990 L/NCLAR Tawl Car Ø Vehicle 2 F(XCT) QBJCCT (PRETRIC CAPRED RAIL) Model NASS Veh. No. Size Weight VEHICLE 2 Weight Weight CBC CDC J P E W J CDC CDC DDF (-180 to +180) ± Cargo L/D © PDOF (-180 to +180) ± Cargo CDC J P E W J CDC CDC CDC L/D © PDOF (-180 to +180) ± Cargo CBC VEHICLE 1 VEHICLE 2 ERST X m Medical Cargo X m PDOF (-180 to +180) <th>Primary Sampling Unit</th> <th>Case NoS</th> <th>Stratum #</th> <th></th> <th>Date (Month, day, year</th> <th>r) of Run</th>	Primary Sampling Unit	Case NoS	Stratum #		Date (Month, day, year	r) of Run
Vehicle 2	CRASHPC Vehicle					
Vehicle Vehi	Vehicle 1					
Size	Vehicle 2					NACC
VEHICLE VEHICLE 2		Year	Make		Model	
Size			GENERAL I	NFORMATION	N	
Weight		VEHICLE I			VEHICLE 2	,
	Size		<u>4</u>	Size		_//
Curb	Weight			Weight		
CDC	1830 + 118 +	+ <u> </u>	9 4 8 kg	+_	+=	kg
Stiffness Stif		_	/ /		upant(s) Cargo	 -
Stiffness Stif	CDC .	13 43	Z E W 1			
SCENE INFORMATION	PDOF (-180 to +1	80)	, \phi \ \phi \phi	•	to +180) -	°
Rest and Impact Positions I No, Go To Damage Information I Ves	Stiffness		5_	Stiffness		-
Rest and Impact Positions I No, Go To Damage Information I Ves			SCENE IN	FORMATION		
Nemation Nematical Nemation Nematical Nemat	Post and Impact P	asitions I I N				
Rest	Rest and impact re), Go to Damage in	TOTTIALIUM []	Christian Constitution Constitu	
Position		VEHICLE I			VEHICLE Z	
Position	Rest	х	m		х	m
Impact	Position			Position	Υ	m
Position		PSI	o		PSI	0
Position	_	.,		•	V	
PSI	Impact Position			Impact Position		
Slip Angle(-180 to +180)						
VEHICLE MOTION				~**		· °
Sustained Contact No Yes VEHICLE 2 VEHICLE 2 VEHICLE 2 Skidding (Rotation)	Slip Angle(-180 to	+180)			·180 to +180)	
VEHICLE 1 VEHICLE 2 Skidding (Rotation) [] No [] Yes Skidding (Rotation) [] No [] Yes Skidding Stop Before Rest [] No [] Yes Skidding Stop Before Rest [] No [] Yes End of Rotation X			VEHICL	E MOTION		
Skidding (Rotation) [] No [] Yes Skidding (Rotation) [] No [] Yes Skidding Stop Before Rest [] No [] Yes Skidding Stop Before Rest [] No [] Yes End of Rotation X	Sustained Contact	[] No []	Yes			
Skidding Stop Before Rest [] No [] Yes Skidding Stop Before Rest [] No [] Yes End of Rotation X		VEHICLE 1			VEHICLE 2	
Skidding Stop Before Rest [] No [] Yes Skidding Stop Before Rest [] No [] Yes End of Rotation X	Skidding (Rotation	. (INO I IVes	Skidding IBe	atation)	INO I LYes
End of Rotation Position X	•••••••••••••••••••••••••••••••••••••••			2024-201-2020-201-2020-202 -20 20-201-2020		**************************************
PSI o PSI o PSI o Curved Path [] No [] Yes Point on Path , m Y , m Y , m Y , m Y , m Y , m T Rotation Direction [] None [] CW [] CCW Rotation Direction [] None [] CW [] CCW	SKIUUIIIY STOP	pernie uear r	IMO f 1109	_	•] 140 [] 155
PSI o PSI o PSI o Curved Path [] No [] Yes Point on Path , m Y , m Y , m Y , m Y , m Y , m T Rotation Direction [] None [] CW [] CCW Rotation Direction [] None [] CW [] CCW	End of Rotation	n X	m	End of P	Rotation X	m
Curved Path [] No [] Yes Curved Path [] No [] Yes Point on Path X m Y m X m Y m Rotation Direction [] None [] CW [] CCW Rotation Direction [] None [] CW [] CCW	Position	Υ	m	FUSITION	Υ	m
Point on Path Point on Path X		PSI	o		PSI	°
Point on Path Point on Path X	Corned Both	•	INC TIVE	Curved Path	ľ	INA I IYas
X m Y m X m Y m Rotation Direction [] None [] CW [] CCW Rotation Direction [] None [] CW [] CCW		, t) NO 1 1 1 4-
Rotation Direction [] None [] CW [] CCW Rotation Direction [] None [] CW [] CCW		. m Y	. m		\	. m
		• • • • • • • • • • • • • • • • • • • •				
Horation Soo flies Horation Soo flies flies	Rotation Direction Rotation >360°	*****************	Manager and the contraction of t	Marting of the Control of the Contro		Authority Andreas (and and an anti-anti-anti-anti-anti-anti-anti-anti-

National Accident Sampling System-Crashworthiness Data System: CRASHPC Program Summary

FRICTION	INFORMATION	TRAJECTOR	Y INFORMATION	V
Coefficient of Friction		Trajectory Data I	No Yes	
		If No. Go To Damage	Information	
Rolling Resistance Opti		Vahiala 1 Steen Angle	•	
Makista 4 Delling D	ociatanos	Vehicle 1 Steer Angle		o
Vehicle 1 Rolling R		Lr	° RF	
	RF ·	LR		
LR · _	RR		_	
Maria Canallia Can		Vehicle 2 Steer Angle		0
Vehicle 2 Rolling R		LF	° RF	₀
	RF	LR		
LK	RR			
		Terrain Boundary I] No. [] Yes	
		First Point		
		X	Y	. m
		Second Point	Υ	~
		Xm	Υ	_·'''
		Secondary Coefficier	nt of Friction	
	DAMAGE IN	FORMATION		
· V	EHICLE 1	\	/EHICLE 2	
Damage Length	L <u>199</u> cm	Damage Length	L	cm
Crush Depths	C ₁ cm	Crush Depths	C ₁	cm
Jusii Depuis	C ₂ cm		C ₂	
	C ₂ cm		C ₃	cm
	C ₄ cm		C	cm
	C ₅ cm		C ₅	
	C ₆ cm		C ₆	
	C ₆ C ₁₁₁			
Damage Offset	D ⊕ <u>Ø 2 Ø</u> cm	Damage Offset	о ±	cm
				
15 THE COMMON IN	IPACT WAS WITH A MOTOR VEHIC	LE NOT IN TRANSPORT FIL	I. IN THE INFORMATION	N BELOW.
IF THIS COMMON IN	PACT WAS WITH A MOTOR VEHIC			
		The Weight, CDC, Sce for this vehicle should		monnation
Make:		tor this vehicle should	De lecolueu above.	
Model:				

SUMMARY OF CRASHPC RESULTS (USING SPINOUT)

DSI-93-AB-016

97.8

YS1

=

CM.

SPEED CHANGE		TOTAL(KPH)	LONG. (KPH)	LAT.(KPH)	ANG. (DEG)
(DAMAGE)	VEH #1	17.9	-17.6	-3.1	10.0
•	VEH #2	.0	.0	.0	.0

ENERGY DISSIPATED BY DAMAGE VEH#1: 24178.4 JOULES VEH#2: .0 JOULES

```
(* INDICATES DEFAULT VALUE)
SUMMARY OF DAMAGE DATA
                                    VEHICLE # 2
         VEHICLE # 1
                                  TYPE-----CATEGORY 11
TYPE----CATEGORY 4
STIFFNESS---CATEGORY 5
                                  STIFFNESS---CATEGORY 0
                                  WEIGHT---- 999999.9 KGS
WEIGHT---- 1948.0 KGS
CDC-----12FZEW1
                                  CDC-----BARRIER
                                  L----- .0 CM. *
L----- 199.0 CM.
                                 C1-----
                                               .0 CM. *
C1-----
           .0 CM.
C2-----
            .0 CM.
                                 C2----
                                               .0 CM.
            .0 CM.
                                 C3-----
                                                .0 CM.
C3-----
                                 C4-----
                                                .0 CM.
C4-----
            .0 CM. *
            .0 CM.
                                  C5-----
                                                .0 CM.
C5----
                                  C6-----
                                                .0 CM.
            .0 CM.
C6-----
                                                .0 CM. *
                                  D-----
D-----
           20.0 CM.
                                  RHO---- 1.00
RHO----
            1.00
                                  ANG----
                                              .0 DEG. *
ANG----
            10.0 DEG.
                                  D'-----
                                                .0 CM.
D'-----
            45.8 CM.
                 DIMENSIONS AND INERTIAL PROPERTIES
                                A2 = 127.0
                                               CM.
   = 138.9
               CM.
A1
                                B2 = 127.0
                                               CM.
    = 150.4
               CM.
B1
                                TR2 = 127.0
                                               CM.
TR1
   = 157.0
               CM.
                                     =******** NEWT-SEC**2-CM
    = 471946.6 NEWT-SEC**2-CM
                                12
11
                                               NEWT-SEC**2/CM
                                M2
                                     =*******
              NEWT-SEC**2/CM
M1
    = 19.554
                                XF2 = 127.0
                                               CM.
XF1 = 251.0
               CM.
                                XR2 = -127.0
                                               CM.
   = -289.6
               CM.
XR1
```

YS2 = 127.0

CM.

SUMMARY OF CRASHPC RESULTS (USING SPINOUT)

DSI-93-AB-016

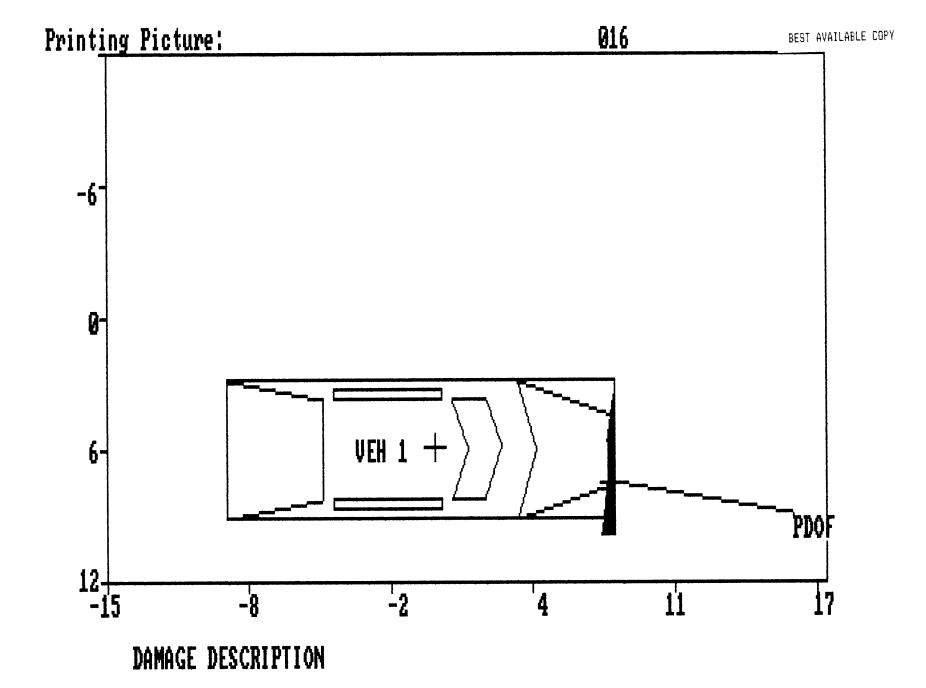
SPEED CHANGE		TOTAL (MPH)	LONG. (MPH)	LAT.(MPH)	ANG. (DEG)
(DAMAGE)	VEH #1	11.1	-10.9	-1.9	10.0
,	VEH #2	.0	.0	.0	.0

ENERGY DISSIPATED BY DAMAGE VEH#1: 17830.7 FT-LB. VEH#2: .0 FT-LB.

```
(* INDICATES DEFAULT VALUE)
SUMMARY OF DAMAGE DATA
        VEHICLE # 1
                                 VEHICLE # 2
                               TYPE-----CATEGORY 11
TYPE-----CATEGORY 4
                               STIFFNESS---CATEGORY 0
STIFFNESS---CATEGORY 5
WEIGHT---- 4294.5 LBS.
                               WEIGHT----2204586.0 LBS.
                               CDC-----BARRIER
CDC-----12FZEW1
                              L----- .0 IN. *
L---- 78.3 IN.
                              C1-----
                                           .0 IN. *
C1-----
           .0 IN. *
           .0 IN.
                              C2----
                                           .0 IN.
C2----
                              C3-----
                                           .0 IN.
(3----
           .0 IN.
                  *
C4-----
           .0 IN.
                              C4-----
                                           .0 IN.
           .0 IN. *
                             C5----
                                           .0 IN.
C5-----
                               C6----
                                           .0 IN.
C6----
            .0 IN.
                               D-----
                                           .0 IN.
          7.9 IN.
D-----
                               RHO----
                                         1.00
RHO----
          1.00
                                          .0 DEG. *
ANG-----
           10.0 DEG.
                               ANG----
D'----
                               D'-----
                                            .0 IN.
           18.0 IN.
```

DIMENSIONS AND INERTIAL PROPERTIES

A1	=	54.7	IN.	A2	Ξ		IN.	
B1	=	59.2	IN.	B2	=	50.0	IN.	
TR1	Ξ	61.8	IN.	TR2	=	50.0	IN.	
			9 LB-SEC**2-IN					LB-SEC**2-IN
M1	=	11.166	LB-SEC**2/IN	M2	=5'	732.151	LB-S	SEC**2/IN
XF1	z	98.8	IN.	XF2	:	50.0	IN.	
XR1	=	-114.0	IN.	XR2	=	-50.0	IN.	
YS1	=	38.5	IN.	YS2	=	50.0	IN.	



CCIDEN	T SUMMARY		9.	Maximum AIS_in Accident	3
ι.	Accident Date: WINTER/WE	ek day	ATPRAC	VEHICLE INSPECTION	
2.	Police Investigated		10.	Date Vehicle Inspected:	193
	(1) Yes (2) No (3) Unknown		11.	Reason Vehicle Note Inspected (0) Not Required (1) Inspection Completed	
	Agency: City: County NEW JE	RSEY		(2) Cannot be Located(3) Repaired or Destroyed(5) Refusal or Impounded(7) Other:	
3.	General Locality	1			
	(1) Freeway, Limited Access(2) Urban (City)(3) Urban-Rural (mixed)(4) Rural, Fields		12.	Impact Data Obtained (0) No Data Obtained (1) CDC Only (2) Crush Profile Only (3) Trajectory Data Only	
4.	Configuration (First Harm) (0) Struck Object or Ped (1) Rear-End (2) Head-On (3) Rear-to-Rear			(4) CDC and Crush Profile(5) CDC and Trajectory(6) Crush and Trajectory(7) CDC, Crush, and Trajectory	
	(4) Angle (5) Sideswipe-Same Direction (6) Sideswipe-Opposite Dir. (7) Noncollision (8) Nonimpact Deployment (9) Unknown		13.	Basis of Delta-V (0) Not Computed (Unknown why) (1) CRASH - Damage Only (2) CRASH - Damage + Traj (3) OLDMISS (4) POLES (5) Unknown Basis	1
5.	Fire Involved (0) None (1) Airbag Vehicle	Ø		(6) One Vehicle Beyond Scope(7) Collision Beyond Scope(8) Insufficient Data	
	(2) Other Vehicle(3) Both Vehicles(9) Unknown		VEHIC	LE HISTORY	
	(3) UIMIOWII		14.	Prior Impacts for AB Vehicle?	2
6.	Vehicles Involved	[A]		(1) Yes (2) No	
7.	Persons Involved	4		(9) Unknown	
8.	Injured Persons	[A]	15.	Prior AB Maintenance or Service (1) Yes, (2) No, (9) Unknown	2
	-			Describe:	
				PCSCLIDG.	

AIRBAG	VEHICLE Fleet: NONE VIN: ILNLM82F52Y Mileage: EST. 19, 312 KM (12, 000 mi)	21.	Airbag Vehicle First Harmful Event (01) Fire or explosion (02) Immersion (03) Gas Inhalation (04) Fell from vehicle
SYSTEM	READINESS LAMP		<pre>(05) Injured in vehicle (06) Other noncollision (specify):</pre>
16.	Pre-Impact Lamp Condition (1) Functioning/Proved Out (2) Inoperative (9) Unknown		(07) Overturn (08) Jackknife COLLISION WITH: (09) Pedestrian (10) Pedalcyclist
17.	Driver's Report of Pre-Impact Flashing (00) No Flashing Reported (01) Continuous Flashing (02) Number of Flashes: (11) (12) Constant Light (19) Flashing, Unknown Number (88) Not Applicable, System Removed (99) Unknown		(11) Railway train (12) Animal (13) Motor vehicle in transport
18.	Period of Pre-Impact Flashing (0) No Flashing (1) Same Day as Impact (2) Prior Day (3) Prior Two Days (4) Prior Week (5) Prior Month (6) Over One Month (9) Unknown		(21) Impact attenuator/crash cushion (22) Bridge pier or abutment (23) Bridge parapet end (24) Bridge rail (25) Guardrail (26) Concrete traffic barrier (27) Median barrier (28) Other longitudinal barrier (specify): (29) Highway/traffic sign post (30) Overhead sign support
19.	Post-Impact Lamp Condition (1) Functioning/Proved Out (2) Inoperative (9) Unknown		(31) Luminaire/light support (32) Utility pole (33) Other post, pole, or support (34) Culvert (35) Curb
20.	Post-Impact Flashing (00) No Flashing Reported (01) Continuous Flashing (02) Number of Flashes: (11) (12) Constant Light (19) Flashing, Unknown Number (88) Not Applicable, System Removed (99) Unknown		(36) Ditch (37) Embankment-earth (38) Embankment-rock, stone, or concrete (39) Fence (40) Wall (41) Fire hydrant (42) Shrubbery (43) Tree (44) Other fixed object (specify): (45) Pavement surface irregularity (99) Unknown

5

AIRBAG VEHICLE IMPACT SUMMARY

- 22. Vehicle Role
 - (0) Noncollision
 - (1) Striking unit
 - (2) Struck unit
 - (3) Both striking and struck
 - (9) Unknown
- 23. Manner of Leaving Scene
 - (1) Driven
 - (2) Towed-due to damage
 - (3) Towed-not for damage
 - (4) Towed-details unknown
 - (5) Abandoned
 - (9) Unknown
- 24. Number of Impact Events
 - (8) 8 or more
 - (9) Unknown
- 25. Rollover
 - (0) No rollover
 - (1) First event
 - (2) Subsequent event
 - (3) Yes, Unknown event
 - (9) Unknown
- 26. Override/Underride
 - (0) No override/underride
 - (1) Override 1st CDC
 - (2) Override Other CDC
 - (3) Underride 1st CDC
 - (4) Underride Other CDC
 - (9) Unknown

AIRBAG VEHICLE DAMAGE

CODES: (1) Yes, (2) No, (9) Unknown

- 27. Left Front Fender Damage
- 28. Right Front Fender Damage
- 29. Center Top of Grille Damage

FRONT BUMPER E.A. STATUS

30. Left

11

2

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- 31. Right
 - (1) Normal
 - (2) Extended
 - (3) Partial Compression
 - (4) Complete Compression
 - (5) Not Applicable
 - (9) Unknown

FIRST AIRBAG VEHICLE INPACT:

- 32. Configuration
 - (0) Struck Object or Ped
 - (1) Rear-End
 - (2) Head-On
 - (3) Rear-to-Rear
 - (4) Angle
 - (5) Sideswipe-Same Direction
 - (6) Sideswipe-Opposite Dir.
 - (7) Noncollision
 - (8) Nonimpact Deployment
 - (9) Unknown
- 33. CDC: IZFZEW!
- 34. Object Contacted: 1983 Buick REGAL

PRIMARY/DEPLOYMENT INPACT:

- 35. Event Number
- 36. Total Delta-V
- Longitudinal Delta-V
- ·
- 38. Configuration
- See 32 above for codes
- 39. CDC: |ZFZEW|
 - 40. Object Contacted: 1983 Burch REGAL

AIRBAG SYSTEM DAMAGE

CODES: (1) Yes, Damaged

- (2) No, Intact
- (3) Not Applicable
- (9) Unknown
- Airbag Module 41.
- Left Front Sensor 42.
- Center Front Sensor 43.
- Right Front Sensor 44.
- Rear Cowl Sensor 45.
- Diagnostic Module 46.
- Wiring 47.
- Knee Diverter 48.
- Indication of disconnected 49. or loose electrical connectors
- Condition of Deployed Bag 50.
 - (1) Bag intact
 - (2) Split or torn
 - (3) Cut by object in impact(4) Cut after accident

 - (5) Other
 - (8) NA (not deployed)
 - (9) Unknown

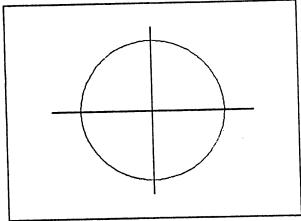
DESCRIBE SYSTEM AND BAG DAMAGE:

NOTE DAMAGE AND CONTACT MARKS ON AIRBAG DIAGRAMS BELOW:

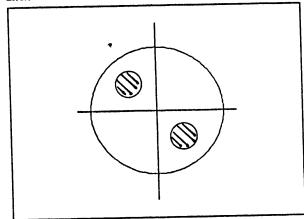
FRONT

2

2







OCCUPAN	TS OF AIRBAG CAR		HAXINUH AIS BY	BODY REGION		
			REGION	MAX AIS	CONTACT	
51.	Number of Occupants in Vehicle	2	Head/Neck/Face	3	93	
		(2)	Chest	•		
52.	Number of Injured Persons	2	Abdomen			
		ليكنا	Legs/Hips			
53.	Maximum AIS in Airbag Vehicle	3	Other (Arms)		93	
	(0) No Injury (1-6) AIS Severity (7) Injured, unknown severity		Driver Maximum	3	93	
	(9) Unknown		EJECTION			
DRIVER	де: <i>61</i>		Extent	: None		
	Sex: FEMALE		Portal	: NONE		
54.	Number of Driver Injuries	5	OTHER VEHICLE:			
55.	Source of Best Injury Data	a	Maximum AIS			No INJURIES
	(0) Not injured(1) Autopsy(2) Hospital Medical Records	. 💌	Prime/Deploy I Event Number	mpact w λB Vehi	icle	ΦL
	(3) Emergency Room only (4) Private physician, clinic		CDC: N/A	(NAT IHSPE	-TED)	
	(5) Lay Coroner Report (6) EMS Personnel		Total Delta V			<u>N/A</u>
	(7) Interviewee (8) Police		Make:	Bu	nck -	
	(9) Unknown		Model	Year: /983		
			Model:	REGAL		
			Body 1	Type: 2-Doa	R	

NOTES:

6

DRIVER BELT USAGE: (1) Used (2) Not Used (9) Unknown

Evidence: INTERVIEW

DRIVER POSTURE: Any comments Recorded (1) Yes, (2) No

1

Describe driver's posture and position on seat including specific comments on head, torso, buttocks, legs, and feet. Also note hand and arm position. Did driver brace before crash? Describe:

THE driver WAS GEATING IN a upright Position - THE SEAT POSITION WAS FORWARD OF CENTER BECAUSE OF THE DRIVER'S HEIGHT.

DRIVER FOREIGN OBJECTS: Comments Recorded (1) Yes, (2) No

1

Was driver wearing contact lenses or eyeglasses? Or holding any foreign object at the time of the impact (packages on lap, pipe, food, bottle, cigarette, etc.)? Did any lenses, objects, or jewelery play any role?:

THE DRIVER WAS WEARING EYEGLASSES AT THE TIME OF THE COLLISION.
THE LENSES ON THE RIGHT BROKEN OUT FROM IMPPRIT WITH THE
AIRBAG (SRS)

DRIVER COMMENTS: Comments Recorded (1) Yes, (2) No

1

Was the driver aware that the vehicle was equipped with a supplemental restraint system? Did driver offer any comments on smoke, noise, etc.? Did the driver comment on the airbag as a restraint system? Describe:

THE DRIVER SMELL CHEMICAL ORDER AND SEEN SMOKE

PASSENGER-AIRBAG CONTACT: (1) Yes, (2) No, (9) Unknown

2

Describe:

	PAGE 1 OF 2.			C	HANGE	
	79 CASE NO. 40 STATION .	INITIAL AC	CIDENT INVESTIG	ATION REPORT	41 REPORTABLE	/
<u></u>	The British Control of the Control o	45 NO OF 4	LLED INCHERED	B COUNTY	MUN CODE	
	49 MUNICIPALITY _ 50 MILEPOS		RECTION 52 SERVICE	E AREA, RAMP, TOLL PLA	ZA, OR COMMUTER LOT	
<u>7</u> 9		INS. CODE	VEH 79 POLICY 2 PARKED VEH	-	RIAN PEDALCYC	
016	PARKED VEHICLE PEDESTRIAN PED 55 DRIVER'S FIRST NAME INITIAL LAST NAME	MEGTGEIST	81 DRIVER'S FIRST N		AST NAME	.(13)
1	SE NUMBER AND STREET		82 NUMBER AND STR	EET		0
5	STATE ZIP	EXPIRES 795	83 CITY	STATE		nes 15
5	58 DRIVER'S LICENSE NUMBER 59 60 D.O.B. STATE M D	61 62 EYES SEX	84 DRIVER'S LICENSE	NUMBER	STATE M D Y EYES	SEX BB
LL_	63 OWNER'S FIRST NAME INITIAL LAST NAME		B9 OWNER'S FIRST N SAME AS DRIVER	AME INITIAL	LAST NAME	
'a	64 NUMBER AND STREET		90 NUMBER AND STR	EET		
<u>'</u>	65 CITY . STATE 7IP	13	91 CITY	STATE	ZIP	93 -
<u>a</u>	66 MAKE AND MODEL COLOR 67 YEAR 68 PLATE NO. Buick Recal By 83		96 VIN NUMBER	Car Gy 9	2	DY TYPE
[*] 2	70 VIN NUMBER GUAMLIZAODH	DE OWNER	98 VEHICLE REMOVED	VLM82F5L'	Y 41	DR 1
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	SAME AS DRIVER		SAME AS -		CITY STATE	ZIP
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	14 UNDERCARRIAGE 15 OVERTURNED 16 TOTALLED. 17 NONE 18 UNKNOWN 19 OTHER *	RESULTS	7. UTILITY POLE 8. TREE 9. CURB, CATCH BAS 10. ABUTMENT 11. TOLL BOOTH, ABI 12. FENCE 13. XXXXX	UTMENT, GATE	3 HEAVY 6 NOT KNOW 113 HAZARDOUS V1 MATERIALS 1. ON BOARD * 2. SPILL *	V2 -
	107 SPEED POSTED 108 TIRE MARKS . II NO LAB #		14. OTHER * EXPL	AIN	114 NO OF LANES 115 SERVICE	IICKEL *
	116 CHARGE SUMMONS NO.		117 CHARGE		SUMMONS NO.	
	118 TROOPER'S SIGNATURE	119 BADG	E NO. 120 ST3 54	7 }	STATUS PENDING COMPLETE	0.50
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MVA-2 (1-89)

 $M.\mathfrak{D}$.

EYE CARE

CONFIDENTIAL

Dear

Mrs. states that on , during the activation of her air bag in the car in which she was driving, a chemical was emitted from the air bag that burned her face. She was taken to Hospital in I where her face and eyes were irrigated, and her face and eyes were bandaged. She was in severe pain but was not admitted to the hospital.

I first saw Mrs. on , ____ at which time there were extensive burns to the entire face along with a large corneal abrasion of the right eye. There was marked periorbital, nasal, and other facial swelling. She was in severe pain. I subsequently treated Mrs. on

She

is also under the care of Doctor a plastic surgeon.

Mrs. ophthalmic injuries consist of the following:

- 1) Extensive corneal abrasion of the right eye with repeated attacks of recurrent corneal erosion (breakdown of the abraded area.) These attacks usually last two to three days. The symptoms during these breakdowns consist of severe pain in the eye and periorbital area, blurred vision, and an inability to drive and otherwise function. The last such attack began on
- 2) Blurred vision in the right eye since the injury to the cornea.
- Photophobia (light sensitivity) since the injury.
- 4) Chemical burns of the lids of both eyes which have resulted in lid soreness, lid discoloraton, lid scarring, lid swelling, paresthesias (altered sensation such as "skin pricking" and "numbness") and lid pain. The patient has difficulty touching the lids and applying cosmetics.

EYE CARE,

- 5) "Soreness" of the orbits, and periocular tissues.
- 6) Intermittent swelling of the periorbital tissues.
- 7) Area between the orbits and over the nose is discolored, painful, and scarred.
- 8) Area in and above the eyebrows is discolored, painful, and scarred.
- 9) Area below the orbits is discolored, painful, and scarred.
- 10) Abrupt vitreous (gel of the eye) retractions with intermittent attacks of "flashes of light" which disturb the vision.

Mrs. injuries are due to the facial trauma that she sustained on as they are consistent with the nature of the trauma that she sustained. The damage and symptoms that I have listed could be longstanding or permanent.

Sincerely yours,

M.D.



M.D. M.D. M.D. M.D.

Re: D/A:

Dear

was initially seen in our office on
According to the patient, she was apparently involved in a
motor vehicle accident in which her car hit a metal rail. When her
air bag deployed, it apparently ruptured and she sustained facial
burns of her forehead, cheeks, eyelids and chin. She was seen by
Dr.
for the eye care and was referred to our
office for the rest of the injuries.

The dressings that were in place were removed. The areas were cleaned and the crusts were removed on . She was given instructions at that point to use Silvadene with telfa pads on the cheeks and chin, and just the Silvadene on the forehead. She was also to use cold compresses.

The patient was next seen on . At this point, there was significant improvement. The chemical burns were healing well. She was to continue her treatment with Silvadene on the left cheek and put Bacitracin only on the forehead and the right cheek.

The patient stated that her nose was very swollen and tender. There seemed to be some tenderness in the area of the right upper lateral cartilage. She was not sure whether she may have broken this at the time of the injury. She had a rather considerable amount of bruising in her neck area, which was felt to have come from the facial area.

Re: - page 2

By , she was approximately 12 days since the chemical burns of her face and the areas were essentially healed. The areas were red. She was told to stop the Bacitracin and to start using sunscreen.

By ____, the patient was approximately 6 weeks following the injury. The forehead and right cheek still had a very slight pink-ish color. The left cheek had a more significant redness and there was a small area of hypertrophic scar tissue in the mid portion of her cheek. She was instructed in massaging the area. She also described some funny feeling around her nose and upper lip area.

According to the patient, x-rays which were taken were normal and there were no fractures.

The patient was next seen on ________, approximately 2 1/2 months following her injury. She still had complaints of numbness in her upper lip and around the nasal tip area. She had complaints of pain and itching of her upper lids. The upper lids still had some swelling and redness. The forehead and right cheek were red. The left cheek was also red and still had some hypertrophic scarring. She was fitted with a silicone patch to use on the left cheek to try to help reduce the hypertrophic scarring.

By the left cheek was looking somewhat better and some of the redness and scar tissue had decreased. The patient complained of the same weird feelings and prickly sensations over her forehead, the nose, the upper lip and her eyelids. I could not be certain as to what was the source of this. I felt it might be related to the dryness of the area, or possibly the chemical propellant used in the air bag that caused the injury.

When Ms. was seen on she was coming along somewhat better. The lumpy scars that were present on the left cheek were flattened considerably with the use of the silicone gel pad. She still had a considerable amount of redness in the middle part of her face, on the cheeks, the middle half of her forehead, nose and chin area. The lateral cheeks, forehead and parts of the nose were paler. Additionally, she still had the prickly numb feeling periodically over her face.

Ms. was next seen on , because Dr. who she had seen suggested that she come back sooner than her scheduled appointment. Her complaints were essentially the same and I suggested that she use some cortisone cream, if necessary, to try to alleviate some of the discomfort and also some ice, if necessary.

- page 3

Re:

the patient was 10 1/2 months since the injury. The areas of the mid forehead, nose and cheeks still had a very pinkish/red quality, which continued to persist. She still had the itching and burning feeling occasionally. She was concerned because the findings had persisted for quite a period of time. I told her at this point I could not be sure how long this would last, or if it would, in fact, totally go away since we were dealing with a chemical burn, not a thermal type of injury. Possibly what would happen would be dependent more on the behavior of the chemical agent, rather than the normal experience with a thermal type of burn.

When Ms. was last seen, as mentioned, she was 10 1/2 months from the accident and the acute injuries had subsided. She still had these persistent problems of redness and irritation, which presents itself in different ways, as mentioned in my notes.

The hypertrophic scarring that was present on the left cheek appeared to have subsided and I do not believe anything further needs to be done regarding this matter.

I will be following Ms. for another 6 to 8 months. Hopefully, by that time we will see a significant improvement. If the redness and irritation continue, then it may represent a permanent finding. At this point I have no plans to perform any surgical treatment, but should the problems persist, we might want to try some mild superficial treatments to the face to see if we can try to alleviate some of her symptoms and reduce the redness.

Sincerely,

. .

M.D.

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F /31

Loc:
Hospital #:
X-rav #:

Case #:
Exam Date: **

Date Printed:

Date Initially Printed: STERNUM

The visualized bony outlines of the sternum and adjacent structures appear to be within normal limits. No evidence of radiographic abnormality is noted.

IMPRESSION: Normal study of the sternum.



M.D.



F ,'31

Dr.:
Loc:
Hospital #:
X-ray #:

Case #:

Exam Date:

Date Printed:

Date Initially Printed:

RIGHT WRIST: AP, lateral and oblique.

There is no evidence of fracture or dislocation.

IMPRESSION: No evidence of fracture or dislocation.



M.D

′31 F

Dr.: Loc: Hospital # X-ray #:

Case #: ___ Exam Date:

Date Printed:

Date Initially Printed: CHEST: AP, erect

> There is no evidence of inflammatory disease, mass density, atelectasis, cardiomegaly or congestive failure.

IMPRESSION: No evidence of active pulmonary disease.

LEFT RIBS:

Bony outlines of the ribs demonstrate no evidence of fractures or other significant radiographic abnormality. No fracture of the ribs is noted.

Let margh a configuration by any arm of the Flori IMPRESSION: Normal study of the left ribs. No evidence of rib fracture.

M.D.

31 F

Dr.: Loc: Hospital #: X-ray #:

Case #:

Exam Date: Date Printed:

Date Initially Printed:

FACIAL BONES, RIGHT ORBIT, LEFT ORBIT:

The visualized facial bones are unremarkable. is no evidence of significant abnormality. Bony structures and orbital contents, as visualized, appear to be within normal limits.

IMPRESSION: Normal study of the facial bones.

orbits.

D/A LOC ER NAME TYPE OP DUT CLAS MR# ACCT DOB AGE 061 Y PHY F SEX

======= CBC & DIFFERENTIALS ========

STAT: TEST RANGE 13.45 H 3.3-11.0 thous WBC 4.46 3.7-5.0 mills RBC 14.4 _ 11.6-15.6 gm% **運HGB** 43.1 37.0-47.0 % HCT 79-99 MCV 96.7 32.3 MCH 26.0-32.6 33.4 31.0-36.0 MCHC 130-400 thou PLTS NEUT 44-88 % 78.4 12-43 % 14.4 LYMP 2-11 % 4.8 DNOM 0-5 % EOS 0-2 % . 4 BASO

URINALYSIS =========

STAT:

	REFE	RENCE
TEST	RANG	Ε

0.0-5.0 %

LUC

PH 5.0-7.5	6.0
PROTEIN -NEG	TRACE H
GLUCOSE UR -NEG	NEG
KETONE -NEG	1+ H
BILE -NEG	NEG
OCC.BLOOD -NEG	NEG '
COLOR -YELLOW	YELLOW
CLARITY CLEAR	CLEAR
SP.GRAV 1.010-1.03	1.016
WBC/HPF 0-5	5-9

(CONT.)

- PAGE 1 - MEDICAL RECORDS FINAL DISCHARGE SUMMARY

====== URINALYSIS

STAT: REFERENCE

RANGE

TEST

RBC/HPF 5-9 H EPITH. -0 -0 1+ H BACTER

SEE BELOW -NEG COMMENT

NEG UROBIL -NEG

TEST : COMMENT ID:

PDAT : PTIM: UROTHELIAL CELLS: 0-2 H

SUMMARY

PICKUP DATE TIME

UNITS

